

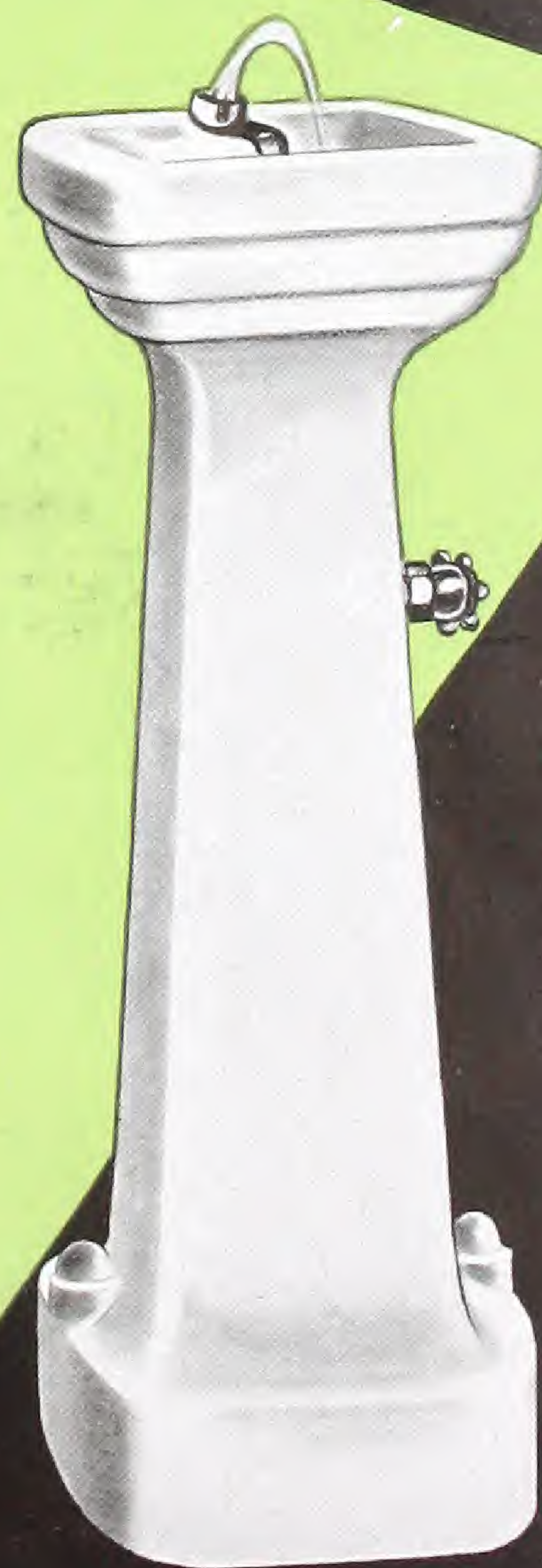
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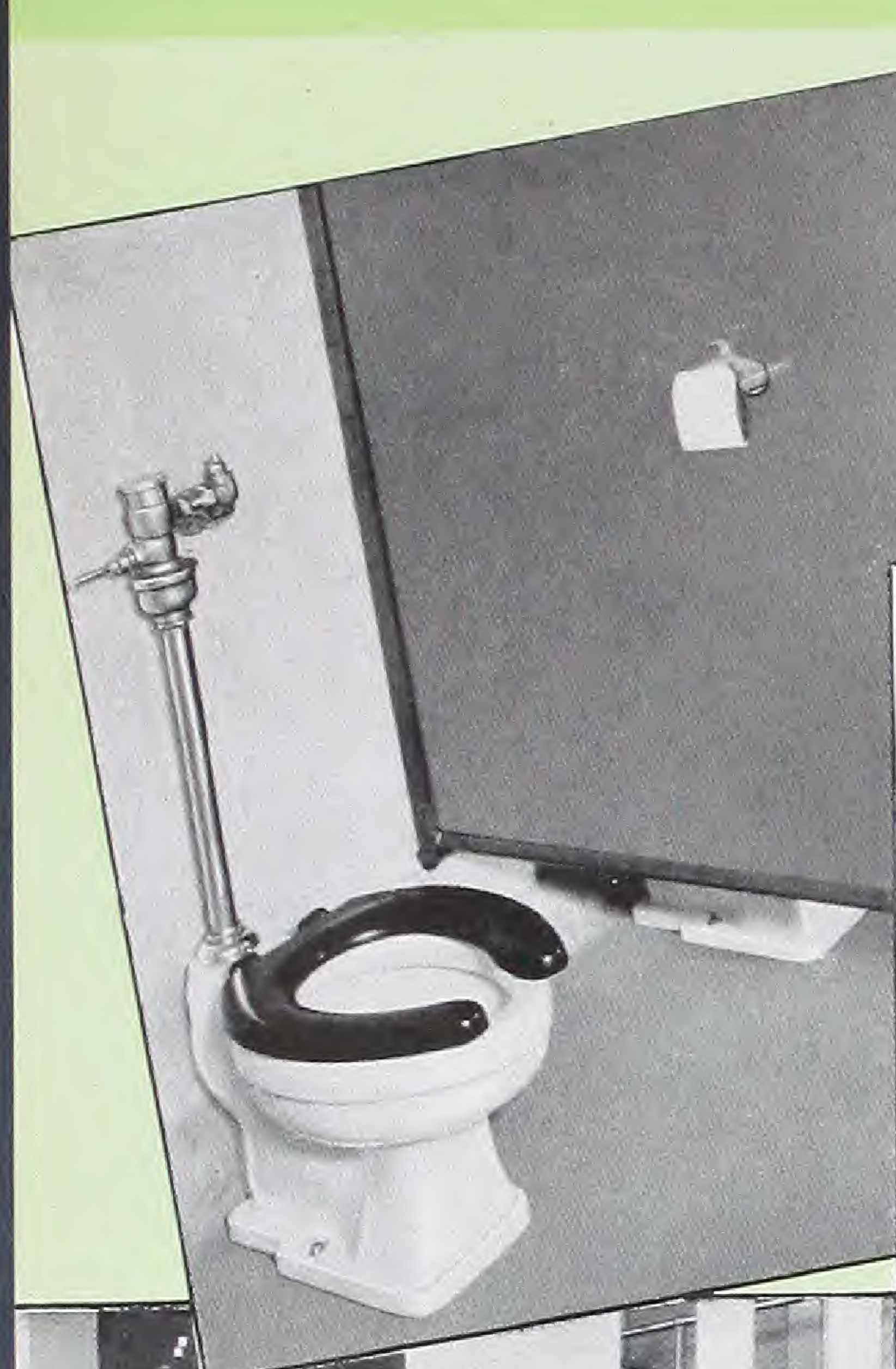
CRANE PLUMBING

FOR INDUSTRIAL
AND COMMERCIAL
BUILDINGS



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CRANE QUALITY IN INDUSTRIAL PLUMBING



SANITARY equipment in industry—lavatories, closets, drinking fountains and shower baths—represents an important initial dollar investment. Unless properly selected and properly installed, this equipment may require a considerable continuous expense as well.

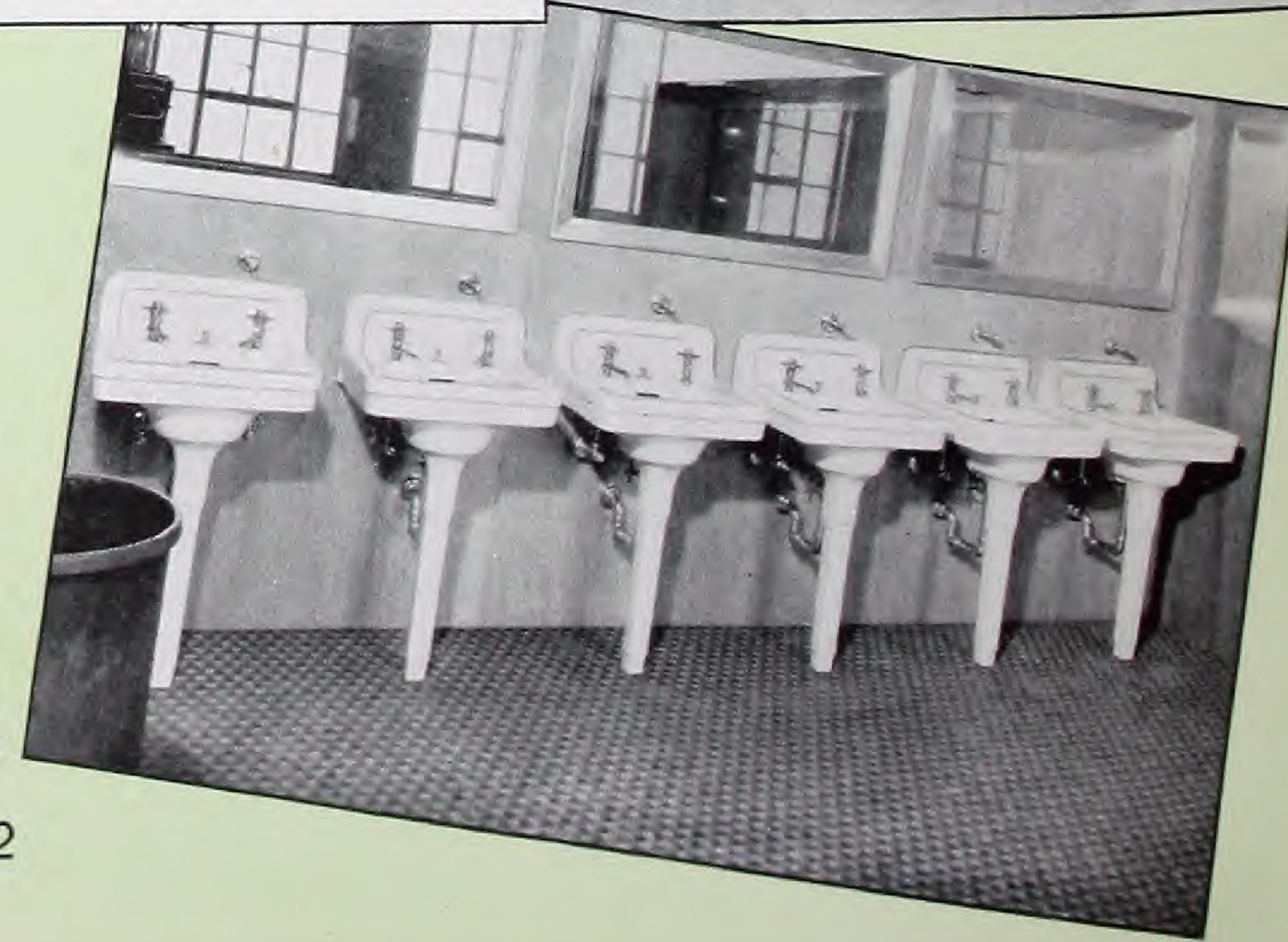
A careful and prudent selection of equipment in the beginning is a well worth-while investment when years of trouble-free service are taken into consideration. It is well to bear in mind that sanitary equipment in industry receives more than average use. To stand up under this kind of service—in some cases, even abuse—all the equipment installed should be of the finest quality—under such service, cheaper construction, less exacting attention to detail and finish rapidly show up.

Engineers, architects and others responsible for the construction and equipping of industrial plants have learned from experience to trust their sanitation problems to Crane-Equipment—have learned, too, that the name Crane, whether on a valve or fitting, closet or lavatory, shower or radiator, represents the finest of quality, as well as exacting attention, to manufacturing detail. It is a guarantee of maximum service—of maximum satisfaction.

CRANE CO.

836 South Michigan Avenue

Chicago, Illinois



THE IMPORTANCE OF PROPER SANITATION IN INDUSTRY

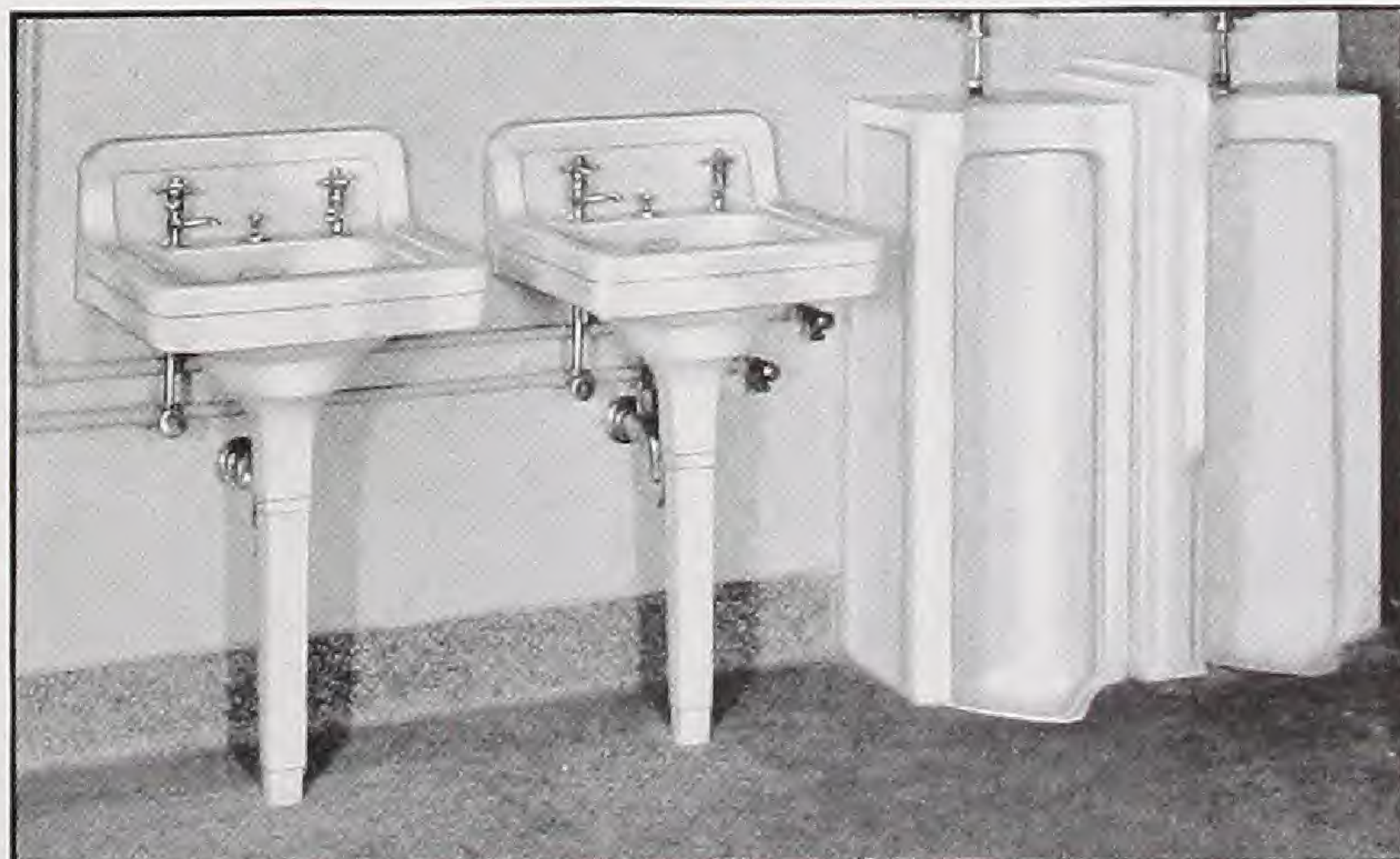
SANITARY equipment in industry plays a greater part than is generally realized in the profit and loss statement. In the matter of labor turnover, sanitation is an important factor—an adequate supply of water will do much to prevent sickness; and this supply available near each group of workmen will save time.

Modern practice in the installation of all sanitary equipment calls for ample facilities located throughout the plant, rather than a large central washroom. Smaller units relieve congestion and discourage time wasting. The number of closets, fountains or lavatories required is influenced by a number of factors. Chief of these, of course, is the number of employees working at one time. The type of work has an important bearing on the problem; and general factory conditions have an influence on the number of lavatories required. An Architect or a Plumbing Contractor with a background of industrial experience is in a position

to recommend the type of equipment best suited in each installation.

Plumbing codes in many states and cities specify a minimum number of fixtures of each type for a stated number of employees, but it is poor economy to adhere to these minimums. Adequate facilities should be installed—based on the maximum number of persons employed. In all cases, the washrooms and toilet rooms should be cheery, light and well ventilated.

In considering sanitary equipment, there are other factors just as important as the design, construction and finish of the equipment under consideration. One of the points to be considered is that of the human element. The mental attitude of the employee is a vital factor with reference to production. Individual lavatories, for example, are preferred to the community sink—showers are a good investment in employee satisfaction and loyalty—drinking fountains are definitely known to be an aid to production.



SANITARY equipment for the industrial plant must be built to stand more than ordinary usage. Where possible, vitreous china is to be preferred to enameled iron, owing to the resistance of the former to acids and staining, and also to its great ease in cleaning. A damp cloth alone will leave a vitreous china lavatory bright and shiny. Fittings should be of brass, chromium-plated and of rugged construction. Crane Co. has been meeting and solving

industrial sanitation problems for years. Thus Crane-Equipment offers the advantage of a thorough knowledge of industrial plumbing needs. Crane-built of Crane-quality throughout, each piece of equipment carrying the name Crane has been designed for maximum service, maximum convenience and maximum operating economy. Properly installed by a licensed plumbing contractor, Crane-Equipment assures long life and carefree service.

THE DANGERS OF BACK SIPHONAGE

One of the inherent dangers in any plumbing installation is that of back siphonage. Unless care is exercised both in installation and in use, dangerous waste material may be drawn into the supply lines, causing a serious menace to health.

Back siphonage is caused by a vacuum occurring in a supply line when the outlet of this line is submerged. If the faucets of a lavatory or sink extend below or even close to the water line when the bowl is filled, and these faucets are left open, a vacuum may occur back of the faucet and the water may be drawn up into the supply line and mixed with pure water, then delivered to other lavatories and to drinking fountains throughout the building or even throughout the neighborhood.

Oftentimes, a rubber hose is attached to a faucet and permitted to rest on the floor with the end submerged in waste water. There is

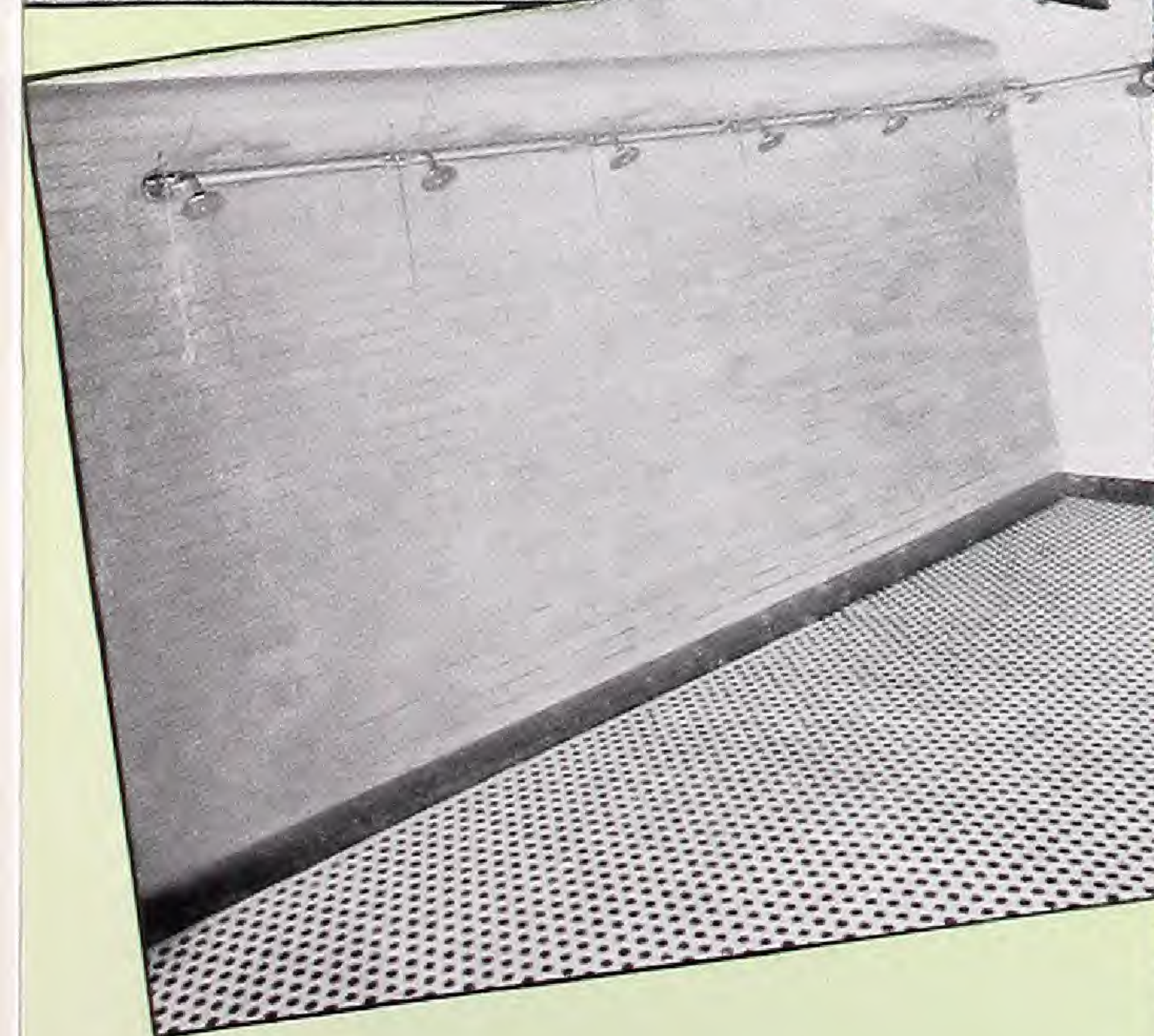
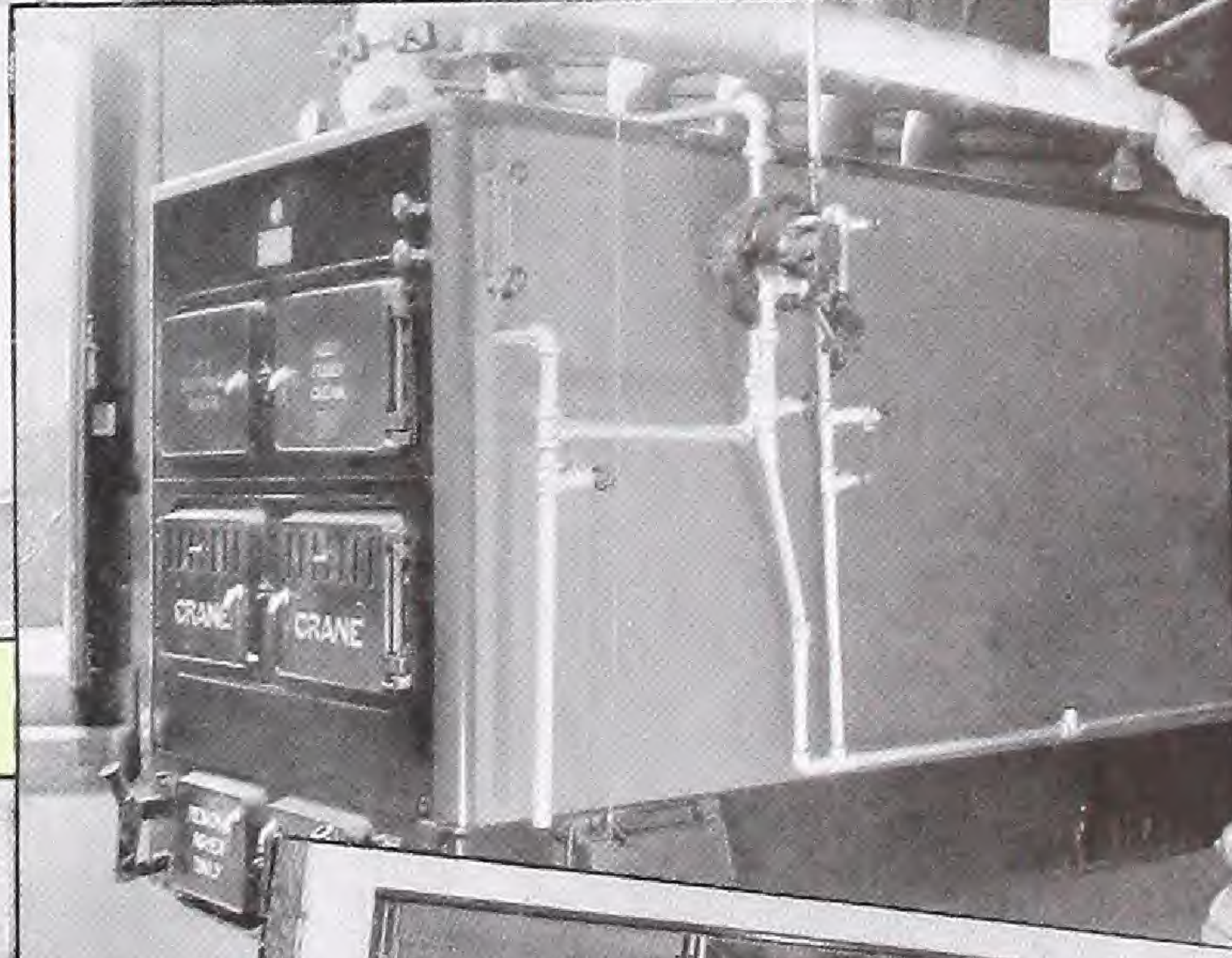
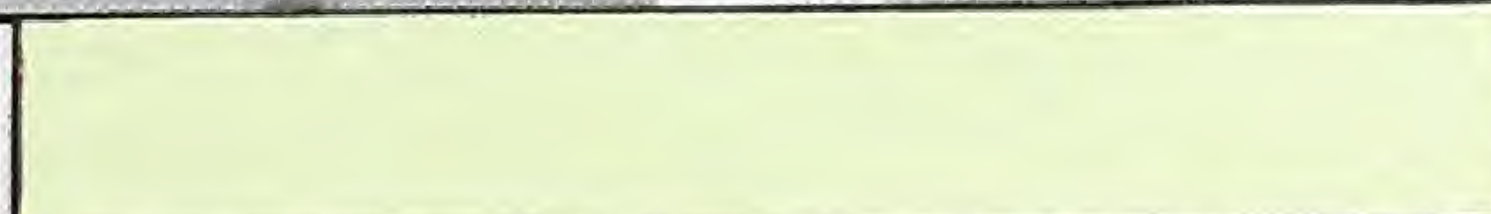
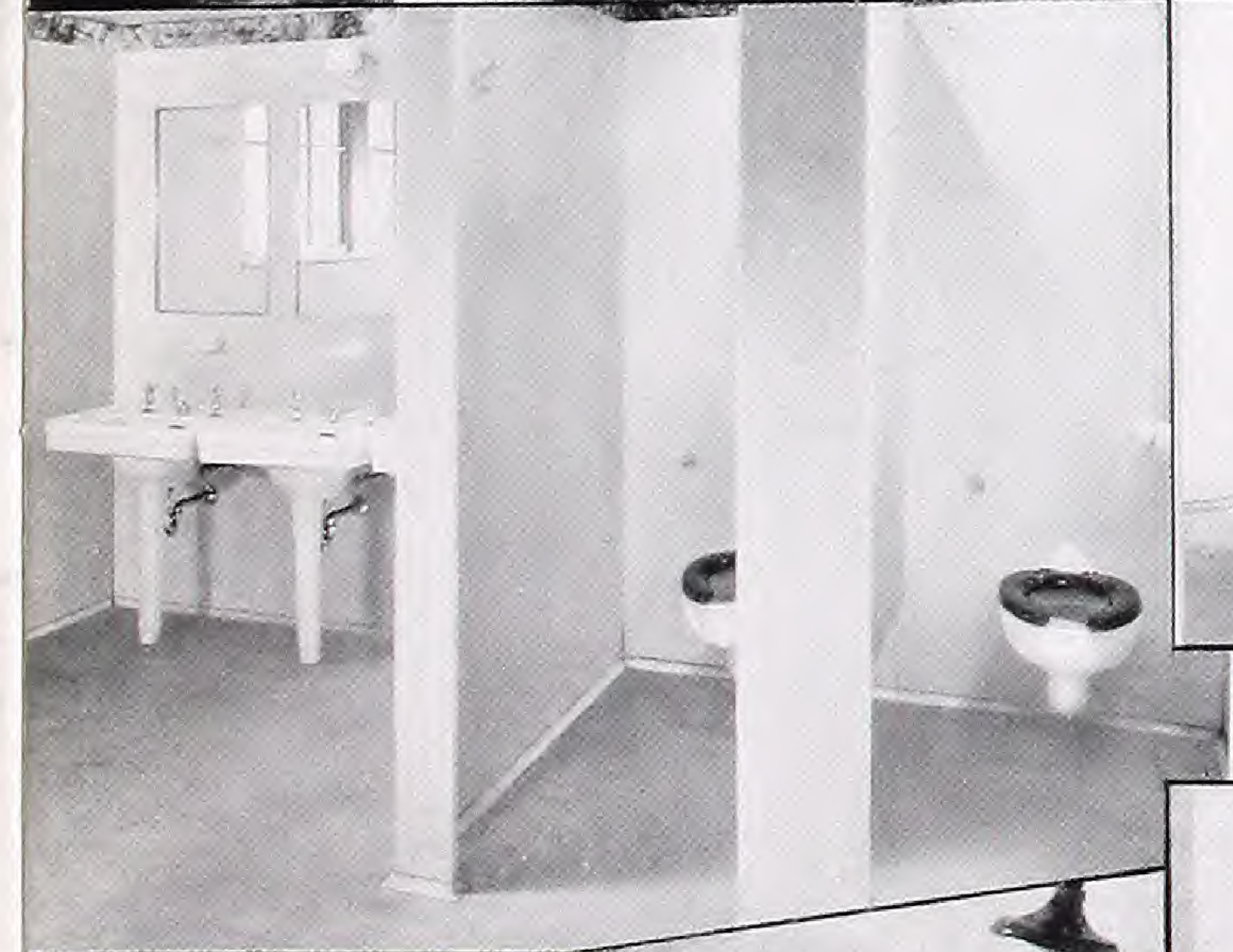
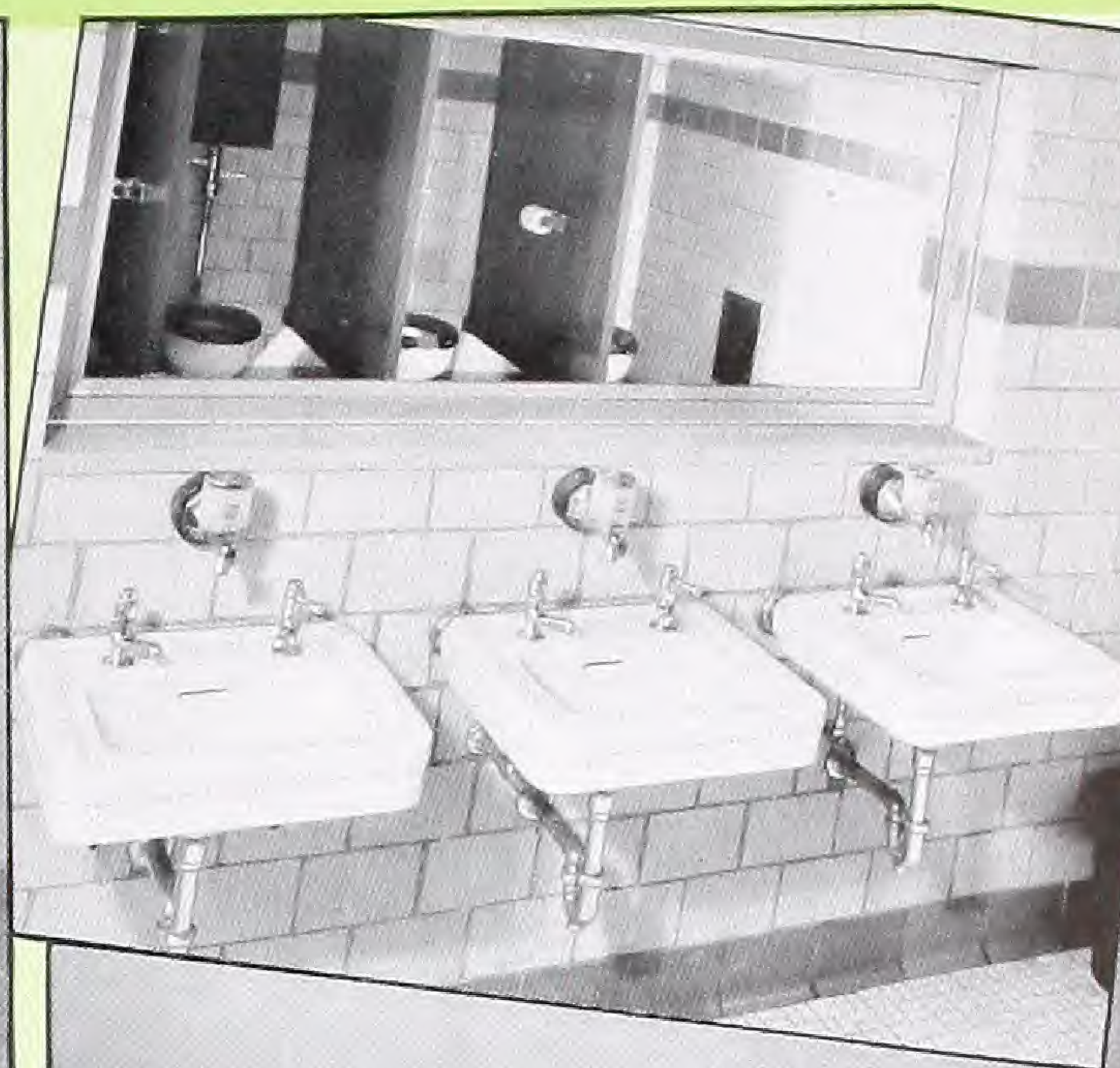
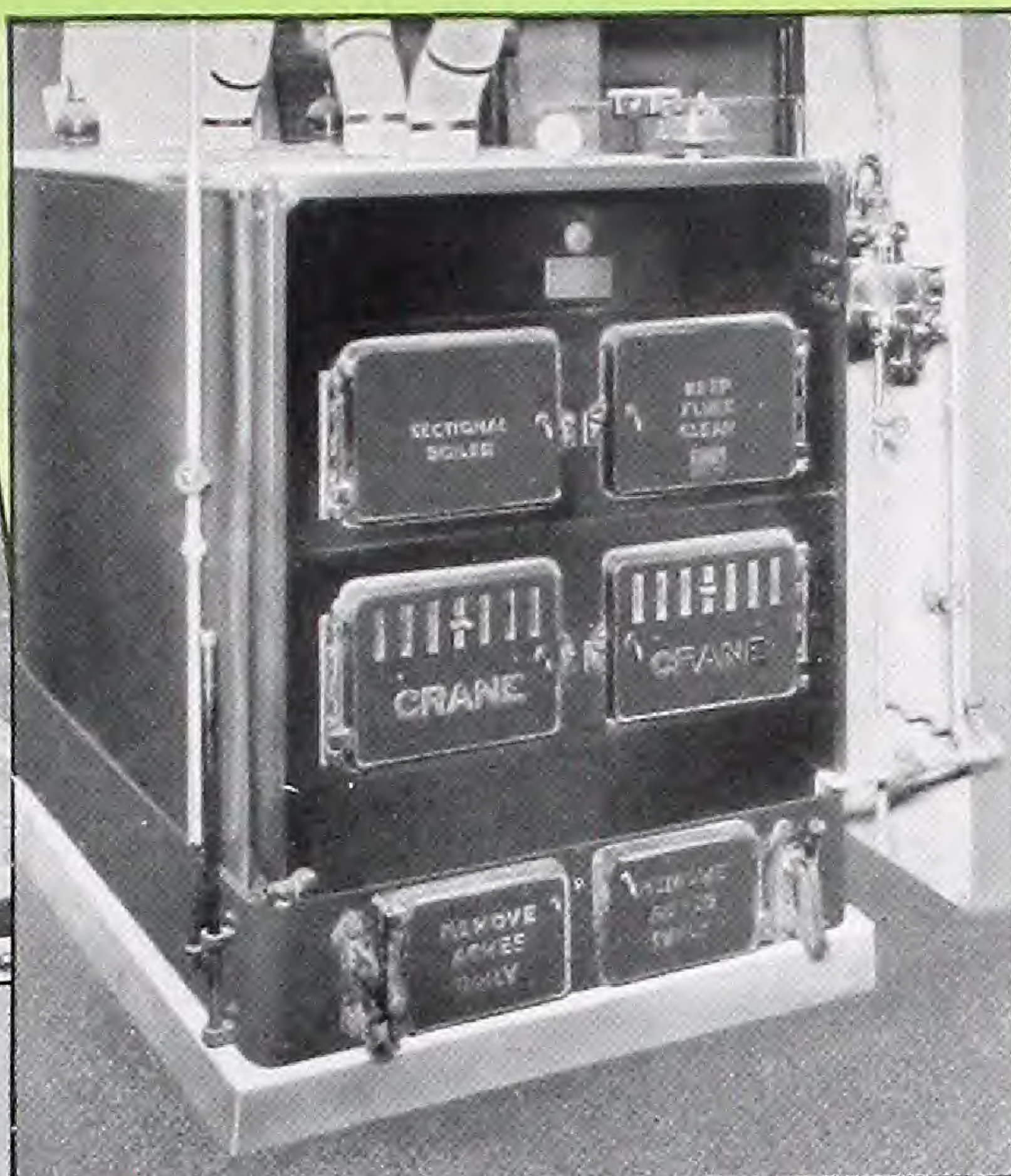
great danger of this water being drawn up through the hose and thus contaminating the supply line should the faucet be left open. To prevent any danger of back siphonage contaminating clean supply lines, there should be no connection between clean water and waste. All faucets should be above the top rim of the basin and at no time should a rubber hose or pipe attached to a clean water line be permitted to be submerged in dirty or waste water.

Many cities have building codes guarding against this danger, but whether or not back siphonage is considered in your local code, it should be prevented in every sanitary installation.

Crane-Equipment is built to guard against back siphonage. This equipment, properly installed by a licensed plumbing contractor, will protect your clean supply lines against this danger.



TYPICAL CRANE INSTALLATIONS



Cabinet Arrangement Patented

CRANE LAVATORIES

THERE is a Crane lavatory designed for every industrial purpose—the spacious lavatory for the executive's washroom, the compact,

convenient lavatory for the office workers—the batteries of lavatories or washup sinks for the shop.

VITREOUS CHINA LAVATORIES

Crane lavatories are made both of vitreous china and porcelain enamel on cast iron. The hard usage naturally received in industrial plants makes a vitreous china lavatory very satisfactory. This material, being impervious to ordinary acids, is not easily stained and will neither check nor craze. Owing to its ex-

tremely hard, smooth surface, it is as easily cleaned as a china plate—wiping it with a damp cloth is all that is necessary to leave it spotless and sanitary. Owing to the hardness of the surface, even years of service will find it still retaining its clean, white appearance.



● C 755 *Norwich* vitreous china, wall-hung lavatory. *Rainier* supply and waste fixture. Rectangular basin; low back. Three sizes: 18" x 15", 20" x 18" and 24" x 21".



● C 425 (Patented) *Norwich* vitreous china lavatory without back. *Lever-Action Securo* supply and waste fixture. Made in three sizes: 24" x 21", 27" x 22" and 30" x 24".

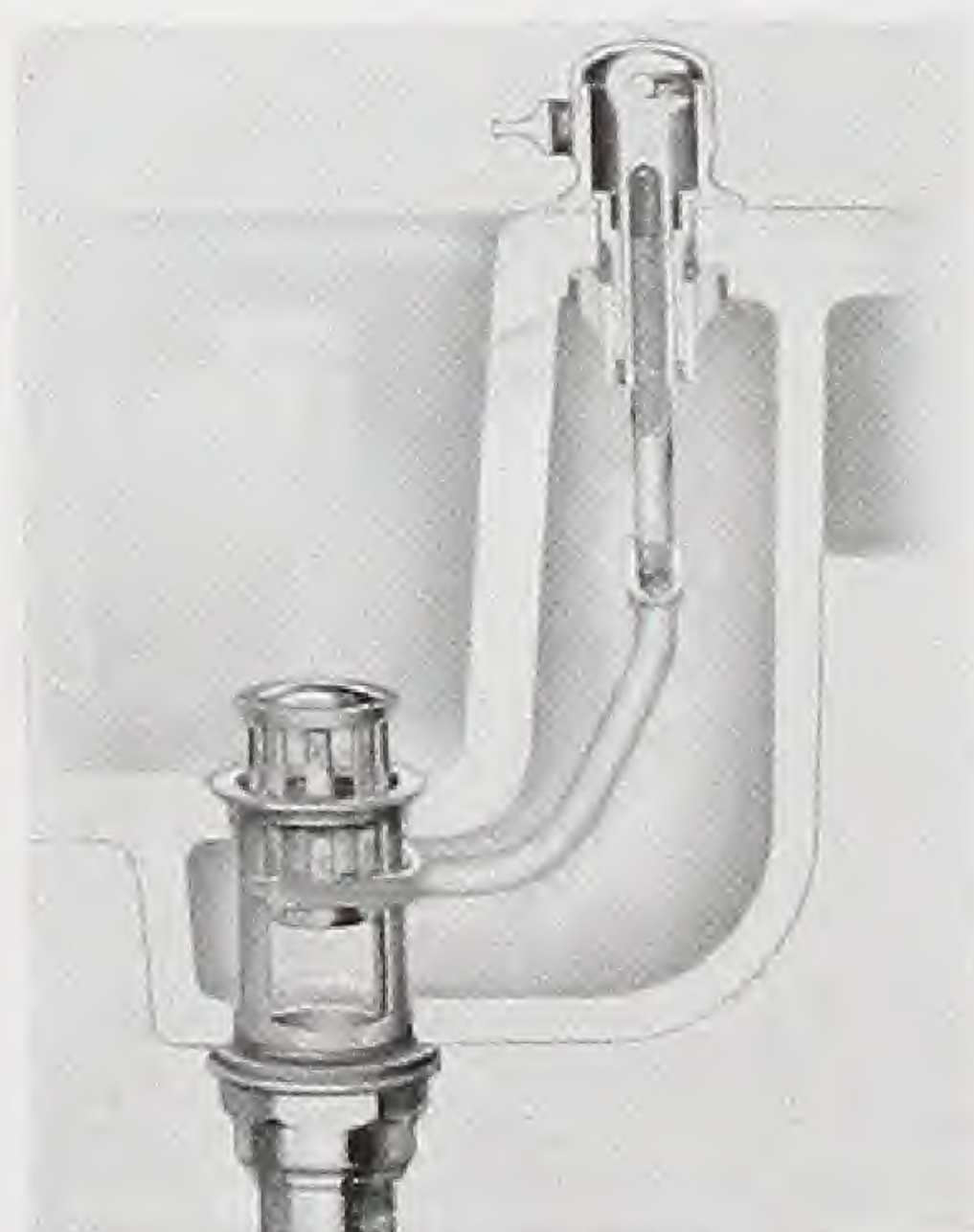
LAVATORY TRIM

On industrial lavatories, self-closing faucets in many cases are desirable as they shut off the water automatically, preventing waste. The lift-type waste is recommended; for while it costs a little more, it is far more satisfactory than the rubber stopper with chain. Obviously, it also eliminates trouble with broken chains, lost stoppers, etc.

Crane faucets are of heavy brass, chromium-plated. They have renewable seats and all parts may be replaced in a few minutes without removing the faucets. Simple and economical to service—they are constructed to give long and satisfactory service.

The Crane *Lever-Action Securo* waste with which many of the Crane lavatories are equipped is positive in action. It is designed to insure quick draining . . . a rapid flow of water

carries dirt along, leaving the bowl clean. Slots strain out lint and large particles, preventing clogged drains—metal stopper is instantly removable for cleaning.



● Cross-section of *Lever-Action Securo* quick-draining waste. Lift rod control gives positive action. A quarter-turn and pull of plug permit removal for easy cleaning. (Patented.)



● C 511 (Patented) *Norwich* compact vitreous china lavatory. Self-closing faucets. Rectangular basin; low back. Two sizes: 20" x 18" and 24" x 21".



● C 602 (Patented) *Norwich* vitreous china lavatory. Same as C 511 except without back. Two sizes: 20" x 18" and 24" x 21".

CABINET LAVATORY



● C 635 *Corwith* cabinet lavatory of vitreous china. Rectangular basin; low back and sides; supply fixture with self-closing valves and pop-up waste. Size, 23½" x 17½". (Cabinet arrangement patented.)

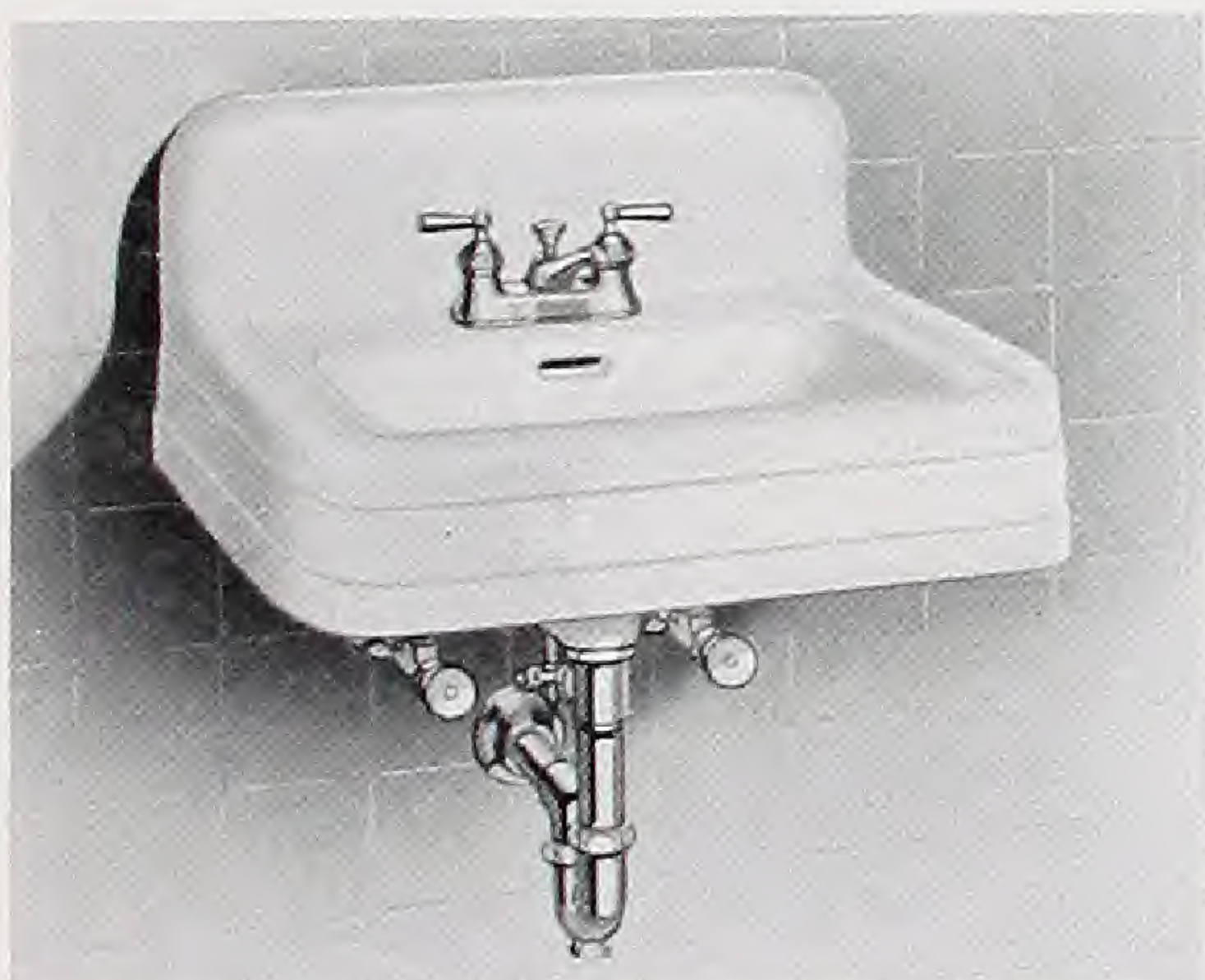
CRANE LAVATORIES

WALL-HUNG LAVATORIES

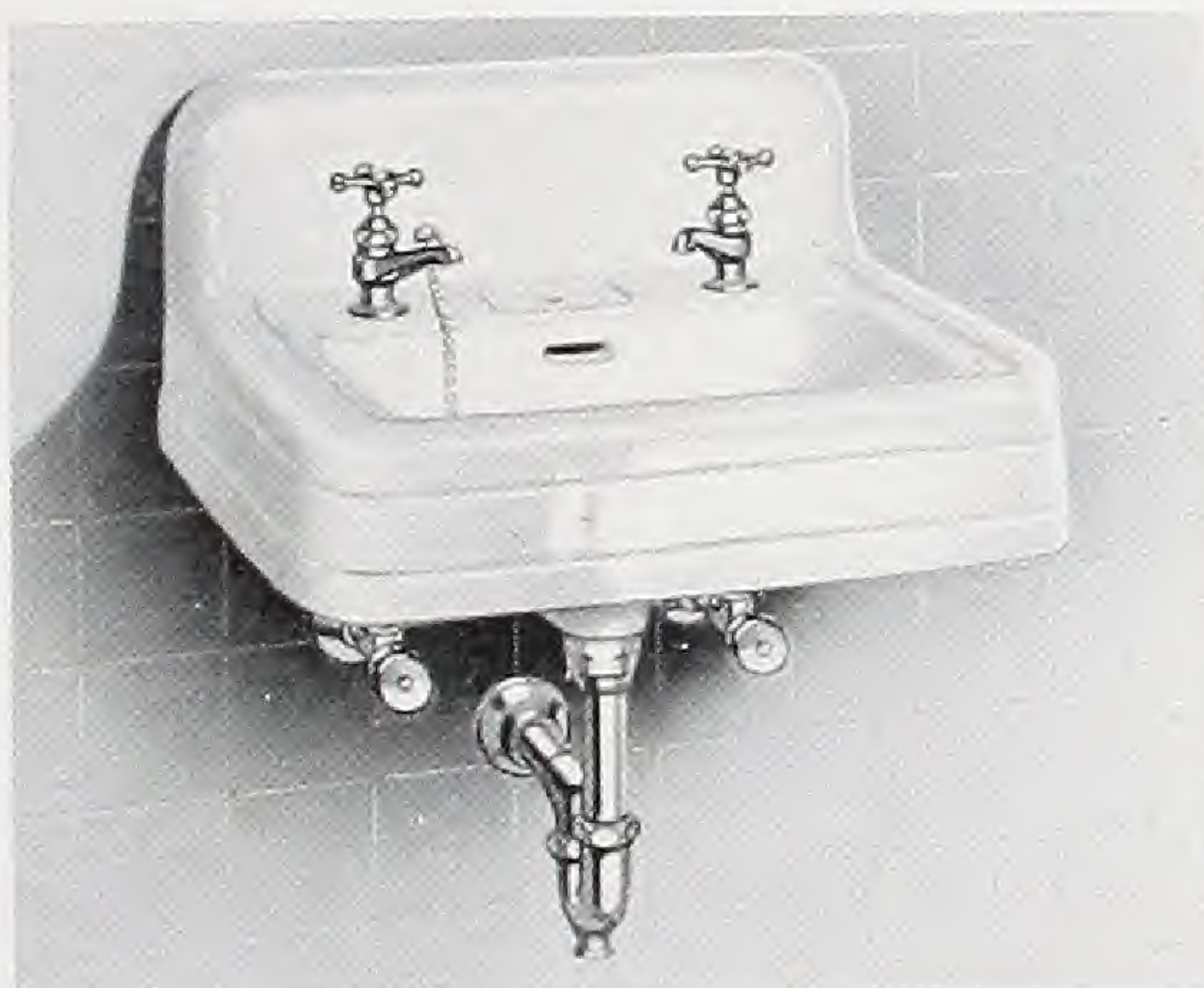


In the industrial plant a popular lavatory is the wall-hung style. It permits easy cleaning of the floor beneath the lavatory, leaving no place for dirt to collect. The back protects the wall from water splashed from the bowl. Shown on this page are wall-hung lavatories, for industrial use—made of porcelain enamel on cast iron.

All Crane wall-hung lavatories are designed with large basins and may be had with self-closing or manually-closing faucets.



● C 2151 (Patented) *Rhodile* lavatory in regular or acid-resisting porcelain enamel. Controls in single fixture. *Rainier* supply and waste fixture. Size, 20" x 18".



● C 2155 (Patented) *Rhodile* porcelain enamel lavatory. Same as C 2151 except individual faucets, chain and stopper waste. Size, 20" x 18".



● C 2244 (Patented) *Norfolk* porcelain enameled, round apron lavatory. Compact, yet with roomy basin. Controls in single fixture. *Rainier* supply and waste fixture. Size, 21" x 18".



● C 2252 (Patented) *Carolina* porcelain enamel lavatory, similar to C 2244 but has lower back and paneled apron. Compact. *Rainier* supply fixture with plug and chain. Size, 19" x 17".



● C 2371 (Patented) *Closin* lavatory of porcelain enameled cast iron. Low back; two faucets; pop-up waste in back. Size, 26" x 14".



● C 2401 *Fairfax* lavatory of porcelain enamel. Chain and stopper waste; two faucets. Two sizes: 19" x 17" and 21" x 18".

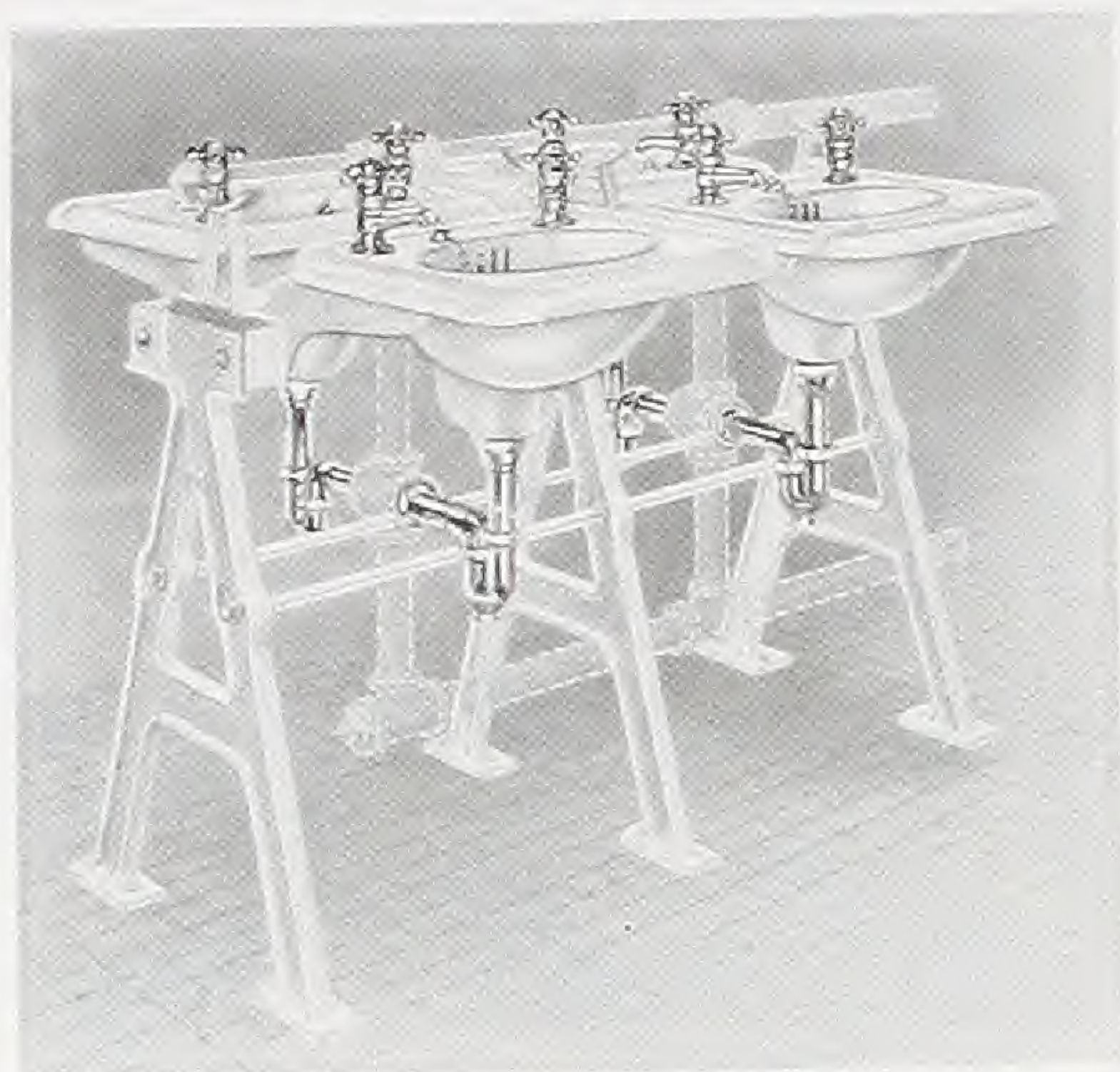
CRANE LAVATORIES

BATTERY LAVATORIES

In the large plant, where a considerable number of people must wash simultaneously, the simple arrangement of lavatories in batteries is the most flexible and satisfactory. They may be

placed against a wall or set back to back as desired in any available space. Workmen usually prefer a lavatory to a sink and the slight additional cost of this better equipment is more than compensated for in workman satisfaction. In the batteries shown below, the lavatories are

of vitreous china and porcelain enamel on cast iron; and the supports are cast iron; painted. Battery lavatories will fit any space and may be had in sizes to accommodate two or more workmen. All Crane battery lavatories are built to stand up under the hard usage that such equipment must necessarily receive. Faucets are of heavy brass, chromium-plated.



● C 2521 *Austin* rectangular, porcelain enameled, double battery lavatories. Painted frames; adjustable brackets. Self-closing faucets. Batteries of 2 or more. Size, 20" x 16".



● C 1501 *Monroe* double battery lavatories. Like C 1511 but twice the facilities. Occupies minimum space. In batteries of 4 or more in multiples of 2. Size, 18" x 17".

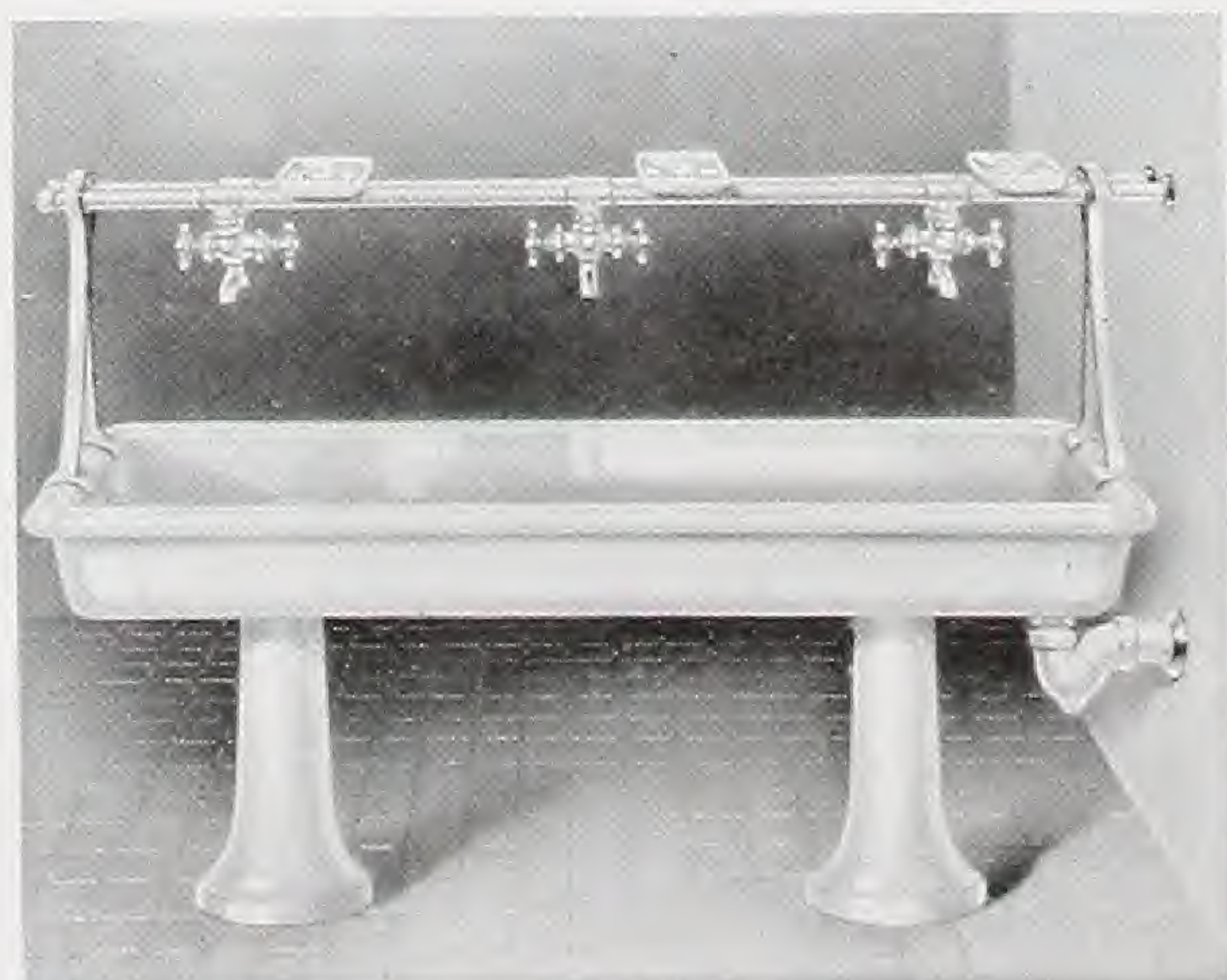


→ C 1485 (Patented) *Norwich* vitreous china, double battery, square lavatories. Painted cast iron frame. Compact—durable. In batteries of 4 or more in multiples of 2; lavatories each, 24" x 21".

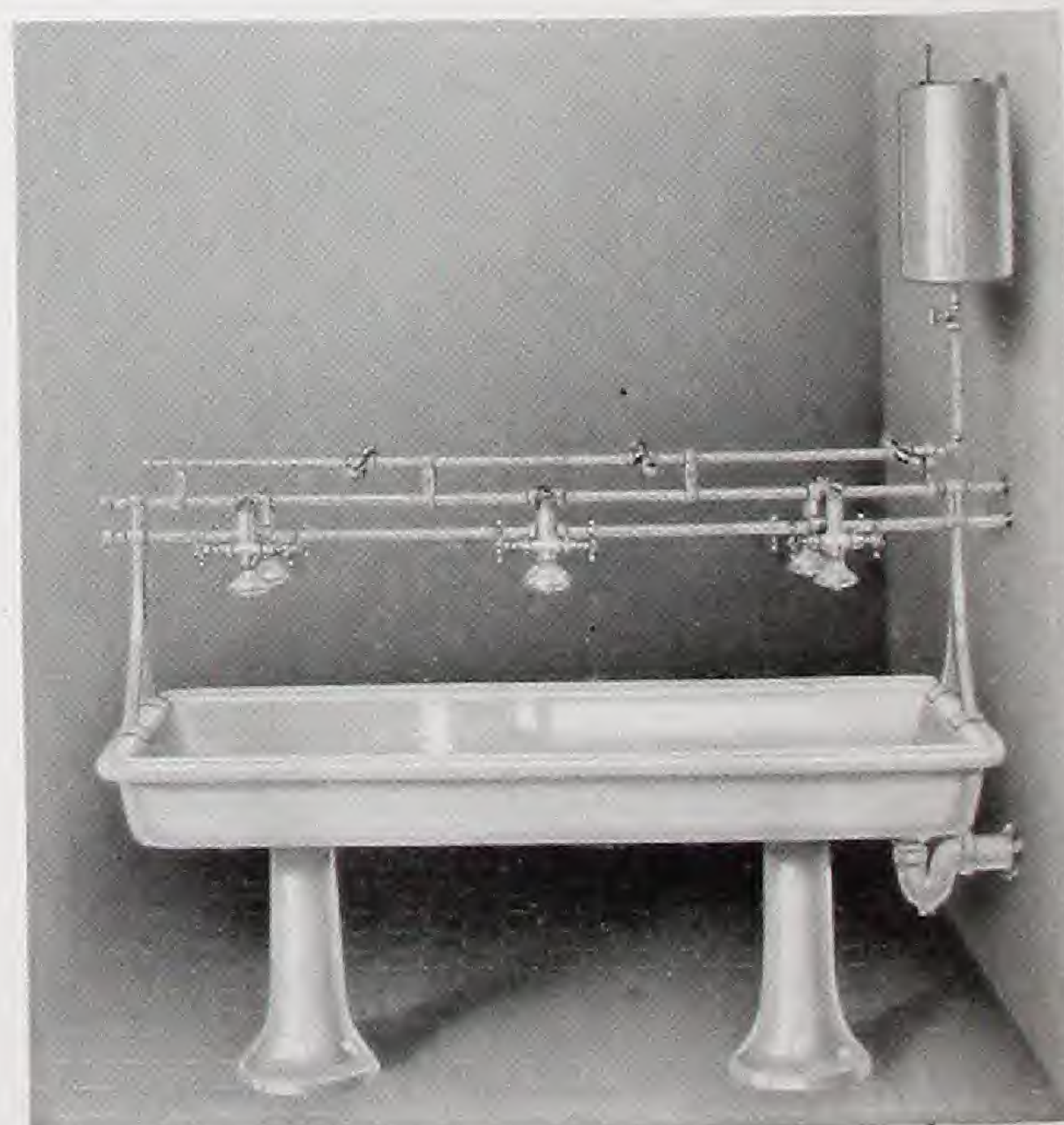


← C 1511 (Patented) *Monroe*, vitreous china, single battery, round lavatories. Painted, cast iron supporting frame. Self-closing faucets and lever action *Securo* wastes. In batteries of 2 or more. Size, 18" x 17".

● C 2591 Crane wash sink with iron pedestals. Outside, painted—inside, porcelain enameled. Three sizes: 4, 5 or 6 feet long, 30 inches wide; with 2 or 3 faucets.



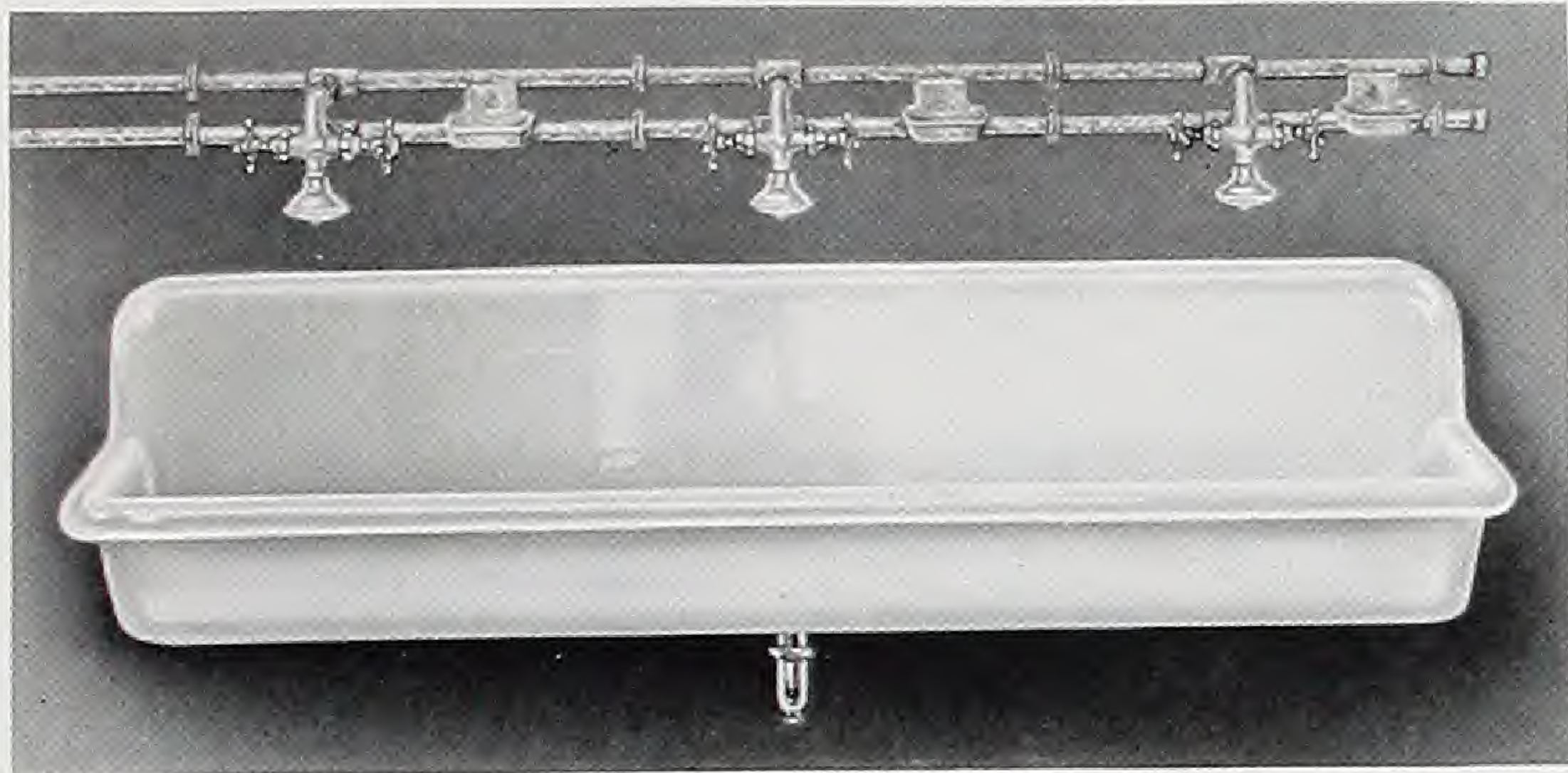
● C 2582 Crane wash sink. Similar to C 2591 with 5-gallon liquid soap tank and push-button soap controls; 4, 5 or 6 feet long, 30 inches wide.



CRANE LAVATORIES

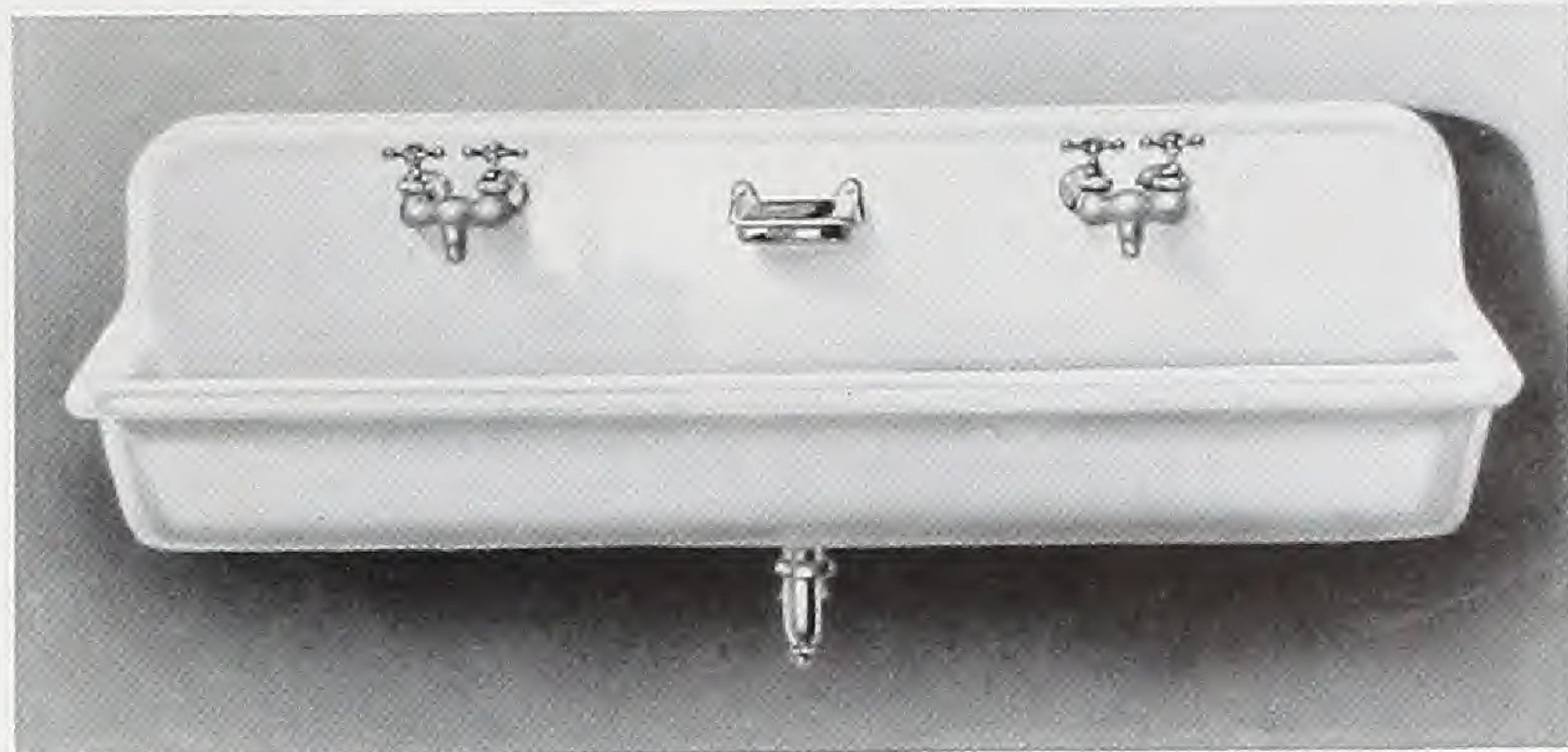
WASH SINKS

The wash sink costs less than lavatory batteries and has the advantage of speed in its favor. Workmen can wash quickly under the streams of running water and it is unnecessary to fill basins or wait for them to drain. Sinks permit accommodation of many men in a small space



● C 2640 Crane wash sink with faucets over back. Inside, porcelain enameled; outside, painted. Made 3, 4, 5 or 6 feet long, 18 inches wide; with 2 and 3 faucets.

and have the added sanitary feature that washing under running water gives. Each 2 feet of side rim of a wash sink is considered the equivalent of one lavatory in figuring the number of sinks required. Thus, a 6-foot sink would accommodate 3 persons on each side and would be equivalent to 6 lavatories. Crane wash sinks are made of porcelain enamel on cast iron.

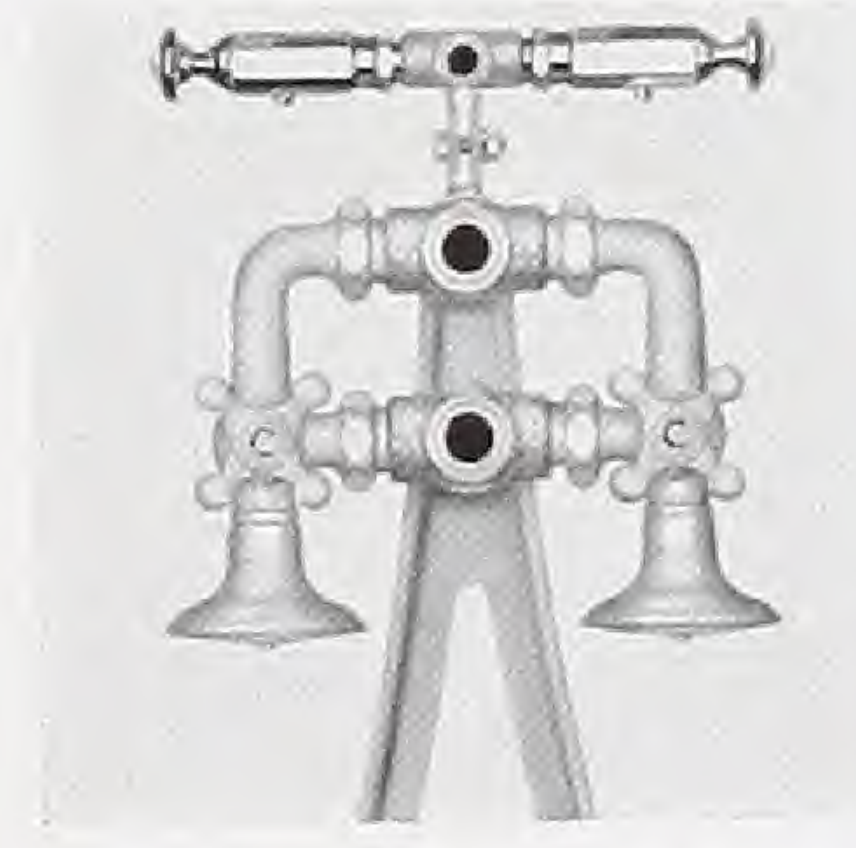


● C 2650 Crane wash sink with faucets mounted on back. Otherwise, same as C 2640 in finish, lengths and number of faucets.

FAUCETS AND FIXTURES FOR WASH SINKS

Wash sinks may be had with standard mixing faucets or with spray type, gooseneck faucets.

Both types carry the Crane name of quality and are made of heavy brass, nickel-plated.



● C 32912 3/4-inch Telsa; renewable seats; 3-inch wash sink faucet.

● C 32940-N 3/4-inch Telsa

● C 32910 3/4-inch Telsa faucet with renewable seats.

● Soap valves and C 32912 faucet assembly for wash sink.

● C 32931 3/4-inch Agilis; renewable seats; 3-inch spray.



● C 32932 3/4-inch Agilis with gooseneck; 3-inch spray.

● C 32921 1/2-inch Telsa sink faucet; renewable seats.

● C 32923 1/2-inch Telsa with gooseneck; 3-inch spray.

● C 32905 Telsa double faucet. 3/4" female flanges for C 2650 wash sink, shown above.

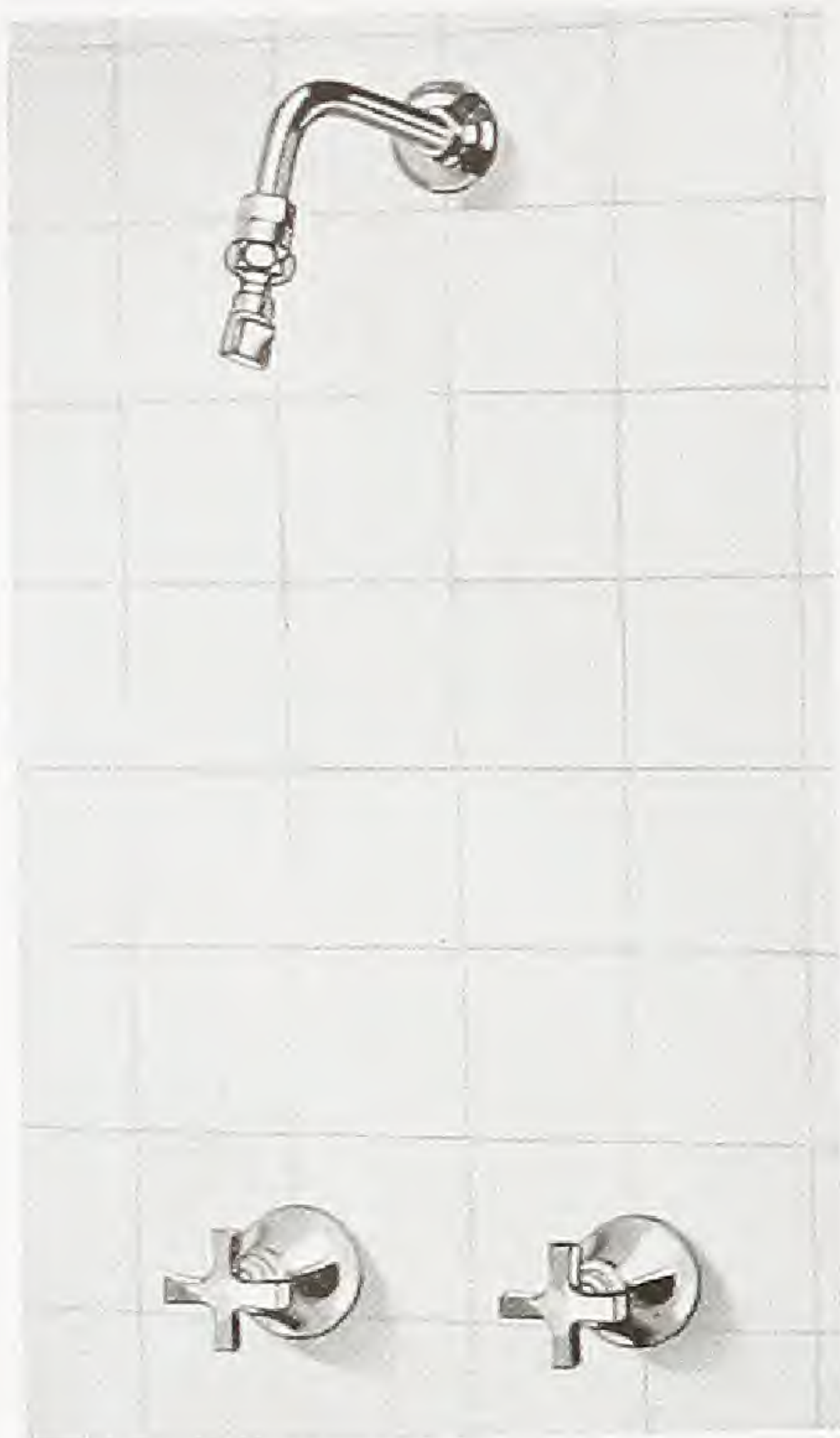
● C 32913 3/4-inch Telsa with gooseneck; 3-inch spray.

● C 32930 3/4-inch Agilis faucet with renewable seats.

CRANE SHOWERS

SHOWERS may be had with separate valves to regulate the hot and cold water supply or with mixing valves to temper the water supply. In some installations, showers are controlled at one point. As to whether showers should be in booths is a matter for individual decision. Most authorities recommend the

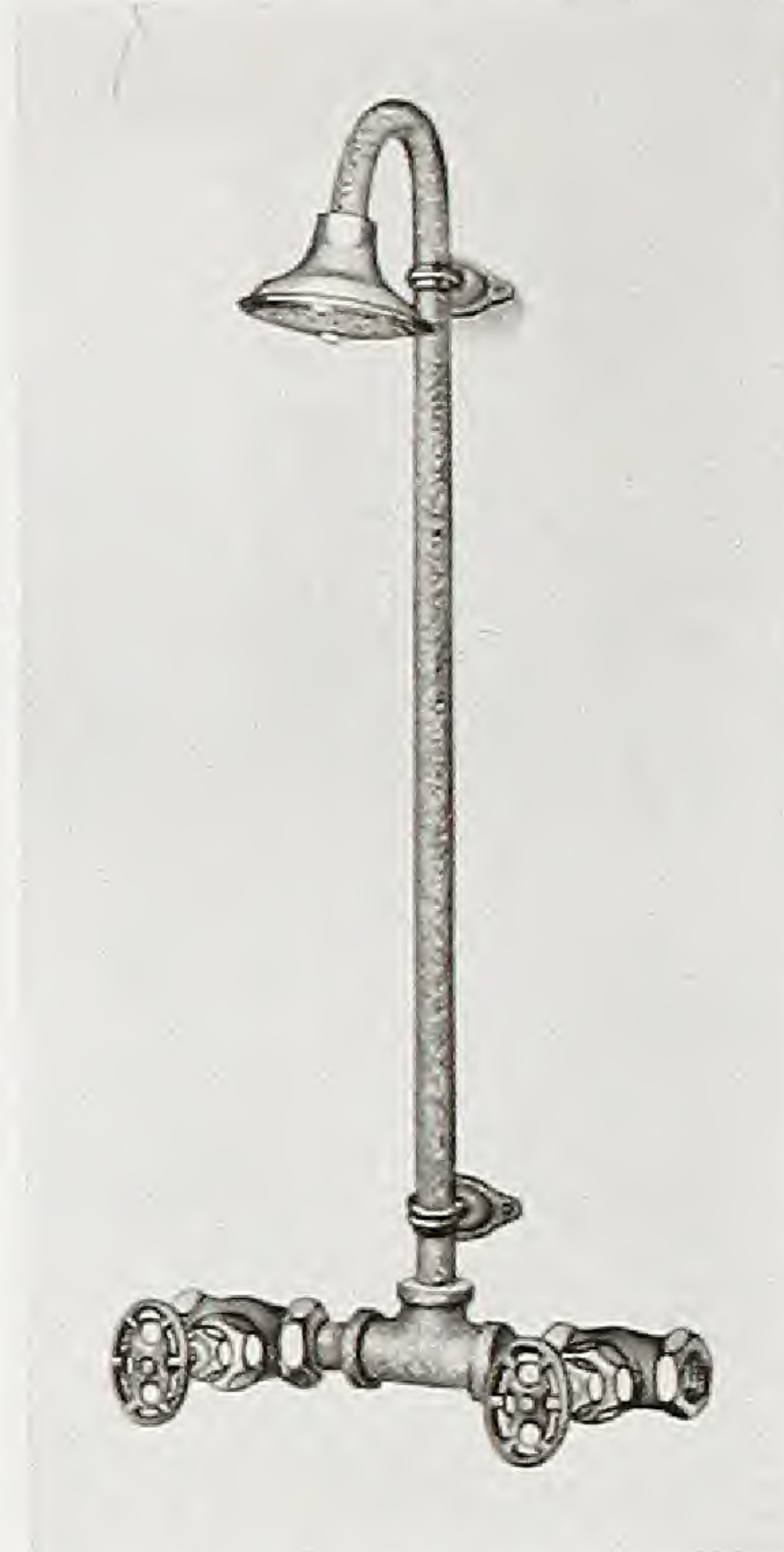
separate stall installations. Shower fittings should be of heavy brass, chromium-plated. Regardless of whether showers are installed individually or in gangs, a thermostatic mixer and regulator in the hot water line is recommended to prevent danger of scalding. Showers are made in both exposed and concealed types.



● C 4268 (Patented) *Rival* built-in shower with *Economy* adjustable shower head. Chromium plated.



● C 4670-FN Improved *Telsa* exposed shower; gooseneck riser; 4-inch rough nickel plated head and valves. For $\frac{1}{2}$ " supplies from ceiling.



● C 4686-F Exposed shower; $\frac{1}{2}$ -inch valves; 4-inch rough nickel plated head; galvanized gooseneck riser.



● C 4408 Built-in shower. Has 4-inch head with screw driver volume adjustment. Chromium plated.



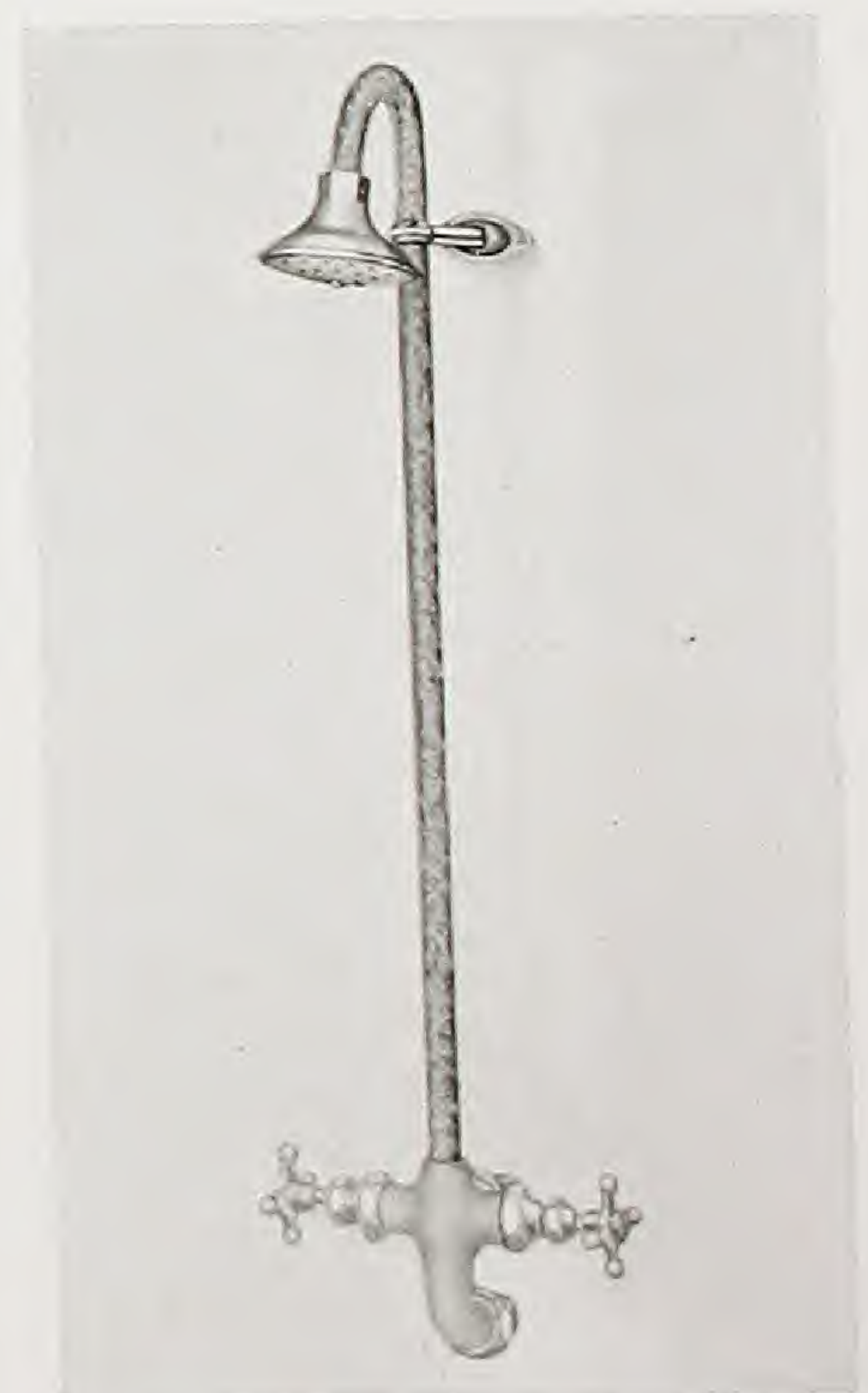
● C 4378-B (Patented) Built-in mixing valve shower; *Refreshor* shower head, chromium plated.



● C 4392-B (Patented) *Rival* built-in mixing valve shower. *Refreshor* head. Chromium plated.



● C 4436-GA (Patented) Exposed mixing valve shower with *Refreshor* head. Chromium or nickel plated.



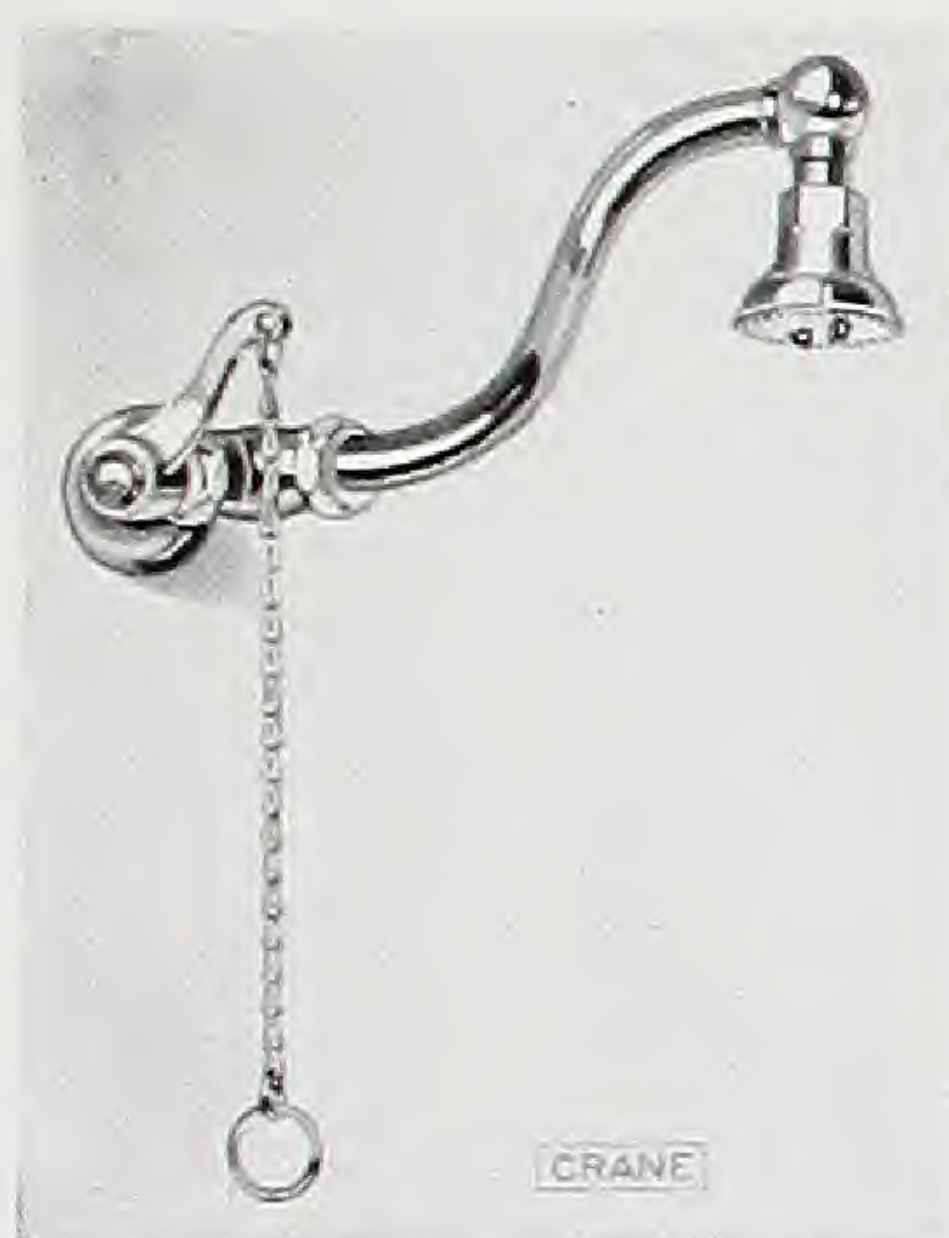
● C 4680-FN Improved *Telsa* exposed shower with $\frac{3}{4}$ -inch rough nickel plated valves. Galvanized gooseneck riser; 4-inch rough nickel plated brass head.

CRANE SHOWERS

SELF-CLOSING SHOWERS

The self-closing showers illustrated here have the decided advantage of saving water. They operate only when the ring is pulled and for this reason are shut off while the bather is soaping himself.

The push-button types have the same advantage and are more convenient as it is not necessary to hold onto the chain to release water.



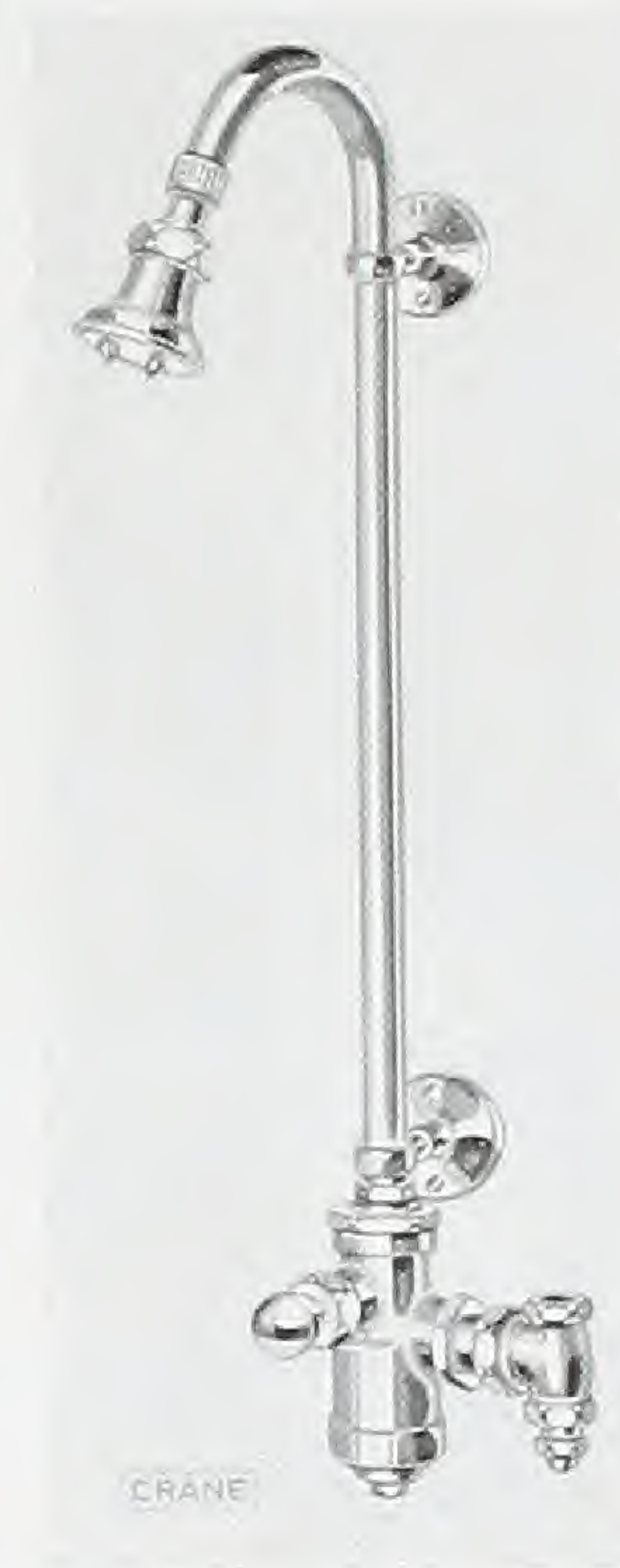
● C 4690-A (Patented) Improved *Triumph* chromium or nickel plated self-closing shower; *Refreshor* shower head. Ring and chain control.



● C 4692-A (Patented) Improved *Triumph* chromium or nickel plated self-closing shower; *Refreshor* head. Ring and chain control. For supply from ceiling.



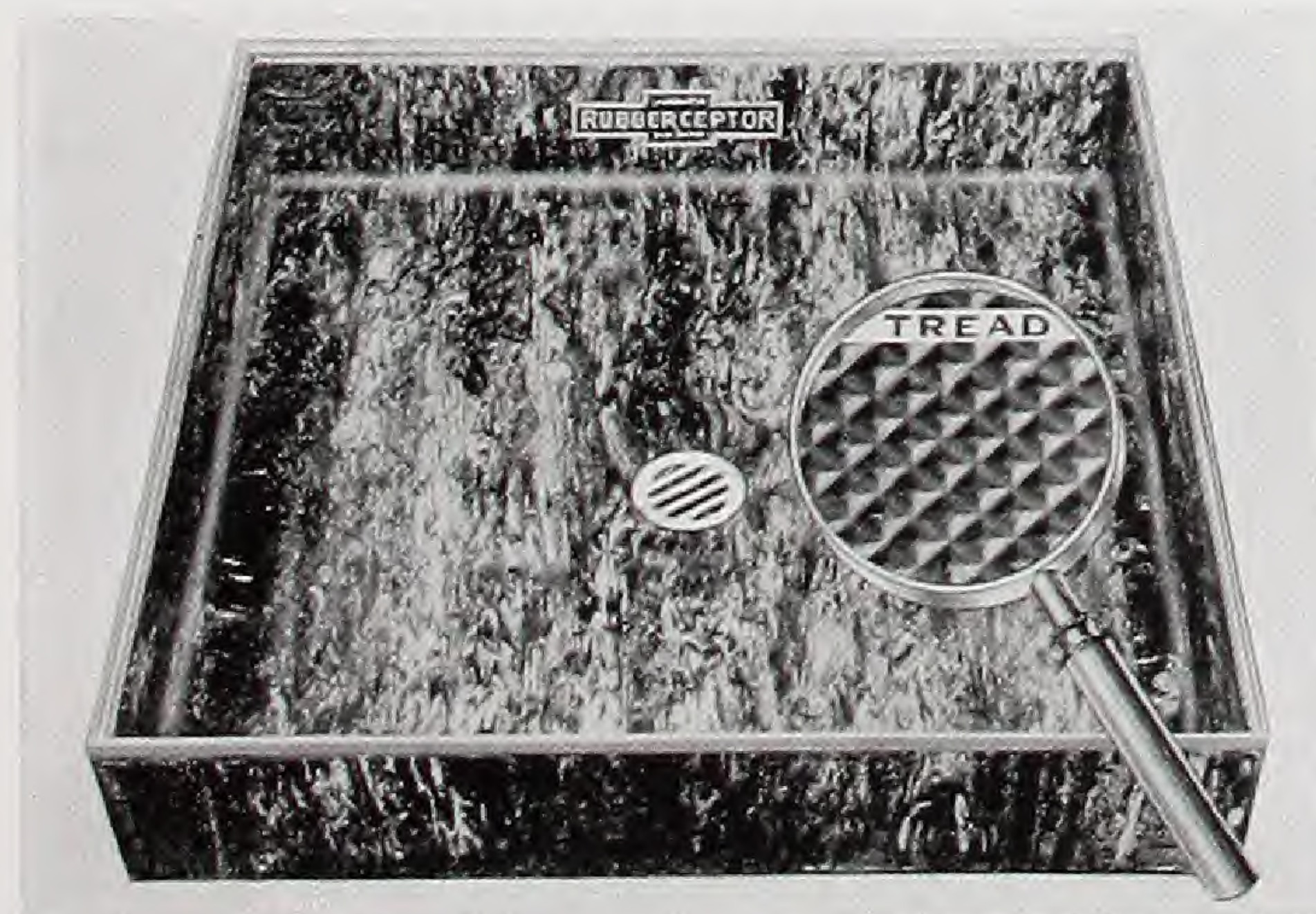
● C 4742-G (Patented) Push-button metering shower; *Refreshor* head; gooseneck riser. Duration of shower adjustable. Chromium or nickel plated.



● C 4750-B (Patented) Push-button, concealed metering shower; *Refreshor* head. Exposed parts chromium or nickel plated.

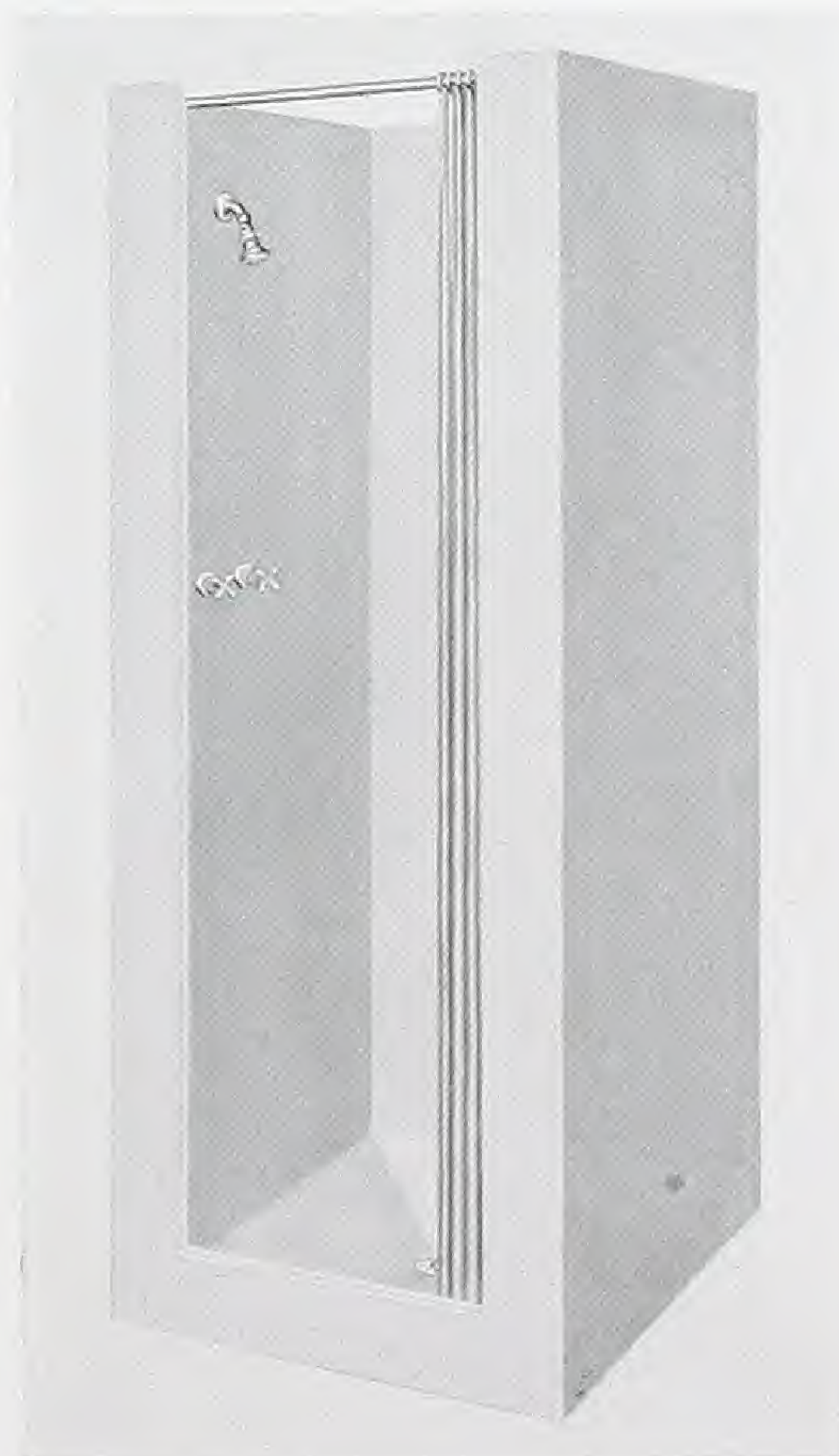
SHOWER BATH COMPARTMENTS

Modern practice recommends the installation of individual shower compartments. The stall shown here is representative of the Crane complete line of compartments. Of heavy angle iron construction with sides and back of rust-resisting sheet iron. Interior of C 4711 has prime coat only. Others are available with porcelain enamel, baked enamel or galvanized finish. In all Crane compartment showers, valves and fittings are of heavy brass construction built for industrial use.



→ C 4711 One-piece welded, copper bearing steel compartment; with prime coat only. C 4412 Crane shower. Duck curtain. 4 sizes: 28" x 40", 32" x 32", 36" x 36", and 40" x 28".

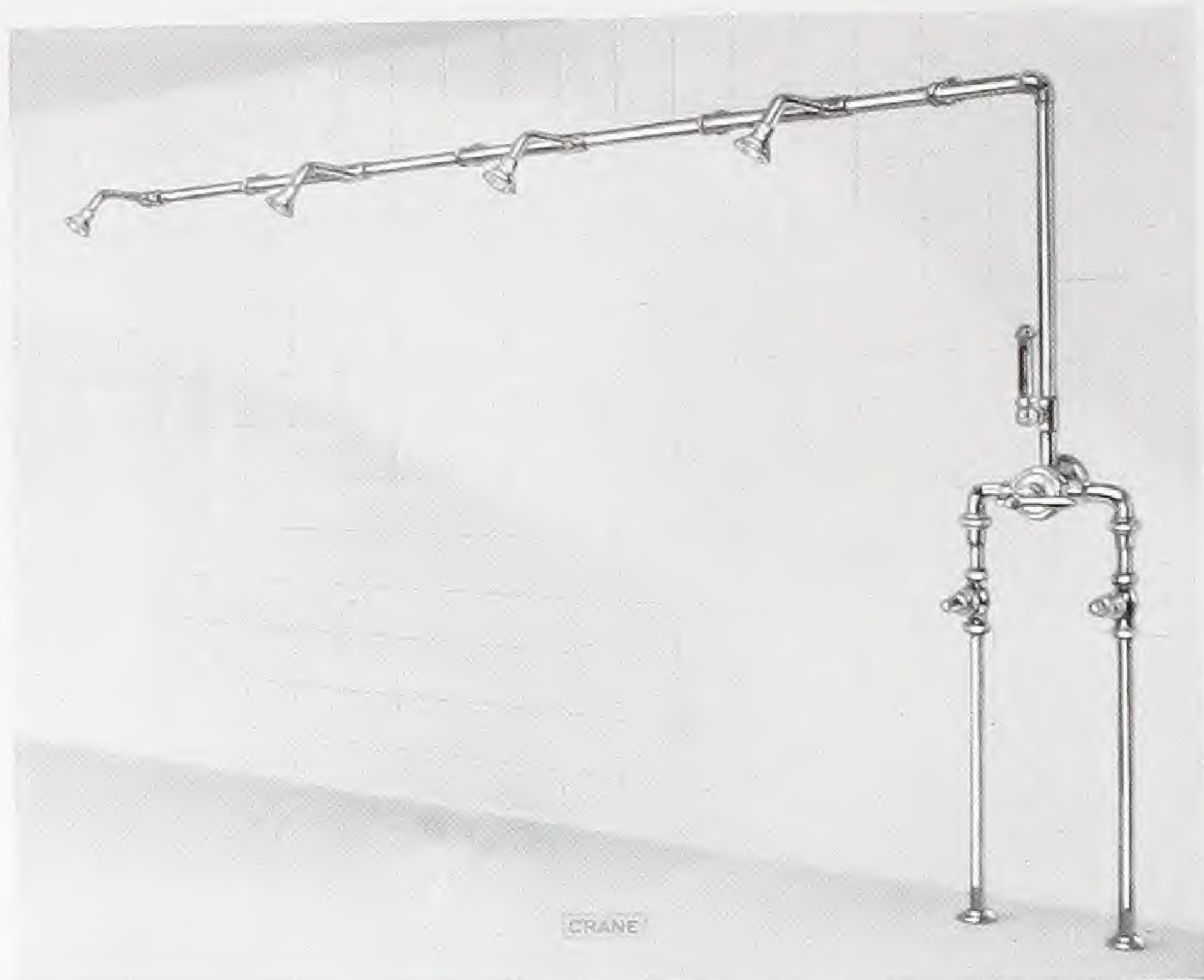
← C 5090 *Rubberceptor* one-piece construction which eliminates need of lead pan. Slip-proof diamond tread. Soft and comfortable to the feet. Will not crack, craze or chip. Economical to install. Variety of colors available. Made of chemically treated rubber. Inert to water, soaps and uratic acid. 37½ inches overall to fit stall to finish 36" x 36".



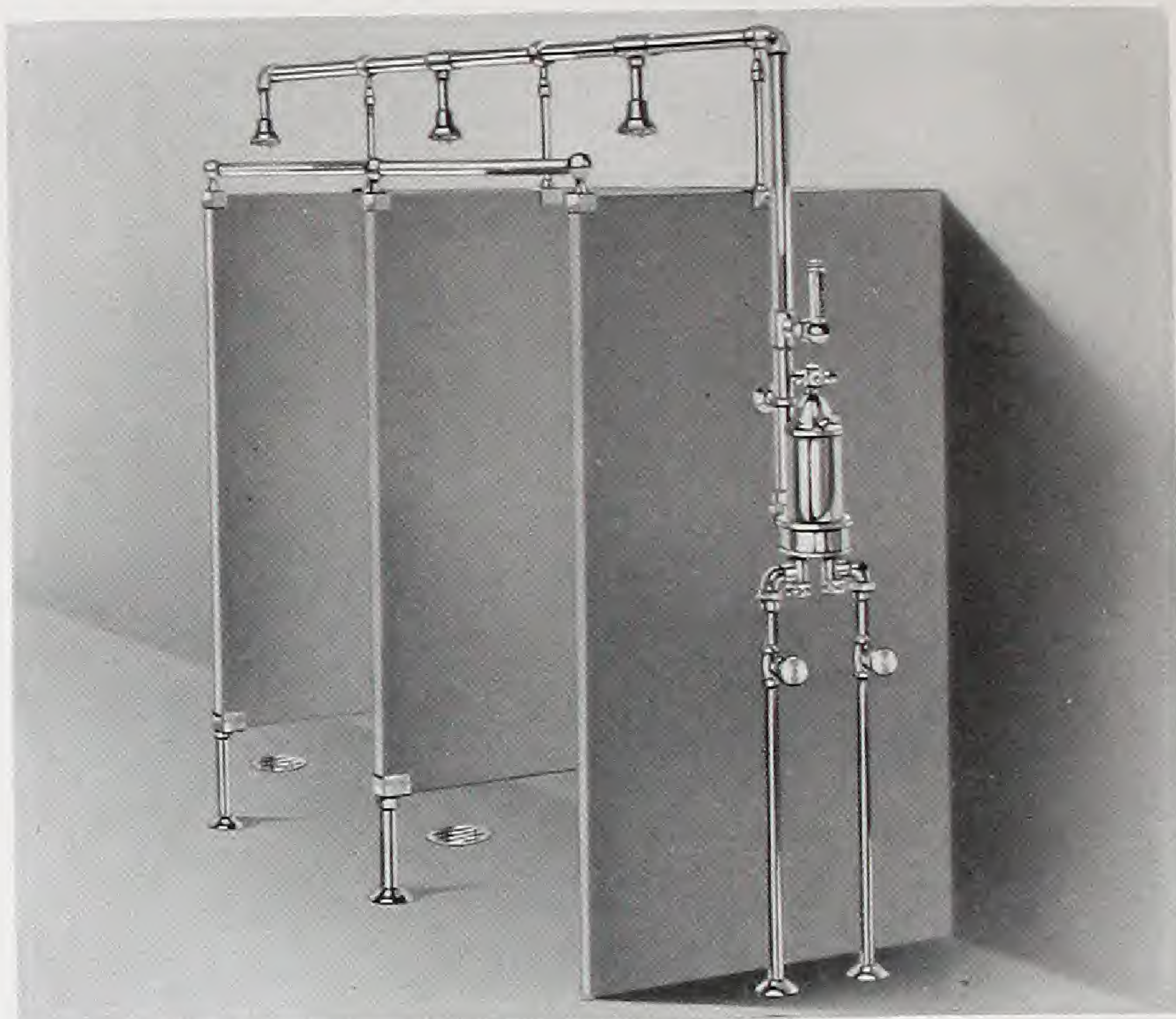
CRANE SHOWERS

WHERE a large number of workmen are bathing at one time, Crane multiple showers offer the advantages of a decidedly economical

installation. The temperature of the water is regulated from a single control point and separate valves for each shower are eliminated.



● C 4720-A (Patented) Battery shower with master mixing valve and thermometer; *Refreshor* heads. Chromium or nickel plated. In batteries of 2 to 10.

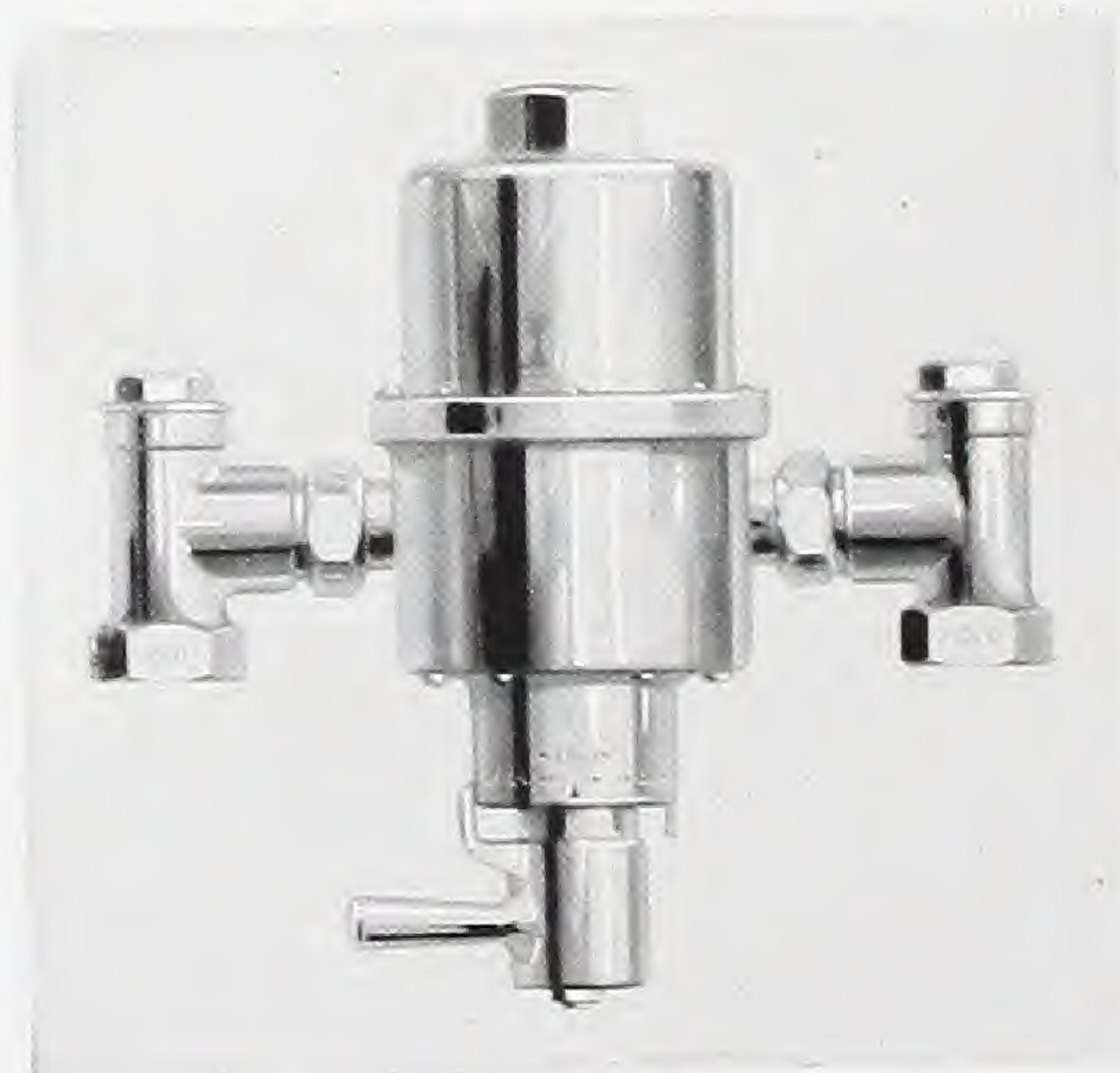


● C 4740-A (Patented) Battery shower with thermostatic mixing valve; *Refreshor* adjustable shower heads. Chromium or nickel plated. In batteries of 2 to 20.

SHOWER ACCESSORIES



● C 4788 (Patented) Exposed mixing valve. Wall support. Renewable seats. Sizes $\frac{1}{2}$ " and $\frac{3}{4}$ ".



● C 4850 (Patented) Powers exposed thermostatic water temperature controller. Capacities for 1 to 20 shower heads or from 14 to 125 gals. per min. at 40-lb. pressure.



● C 4792 (Patented) Concealed mixing valve; indexed dial plate; renewable seats. All working parts renewable from face of wall. Sizes $\frac{1}{2}$ " and $\frac{3}{4}$ ".



● C 4802 $\frac{1}{2}$ " Rival concealed mixing valve; renewable seats; indexed plate. All working parts renewable from face of wall.



● C 4875-B (Patented) *Refreshor* shower head, with ball joint, economical, easy-to-clean.



● C 4860-A Rigid shower head with removable face. 4", 5", 6" and 8" sizes.



● C 4863 Shower head with volume regulator and ball joint. 4", 5" and 6" sizes. Especially recommended for mixing valve showers.



● C 4871-B (Patented) *Economy* shower head. Uses less water; controls spray and resists clogging. Delivers a soothing aerated shower.



● C 4875 (Patented) *Refreshor* rigid shower head. Produces invigorating spray. Face removable for easy cleaning.

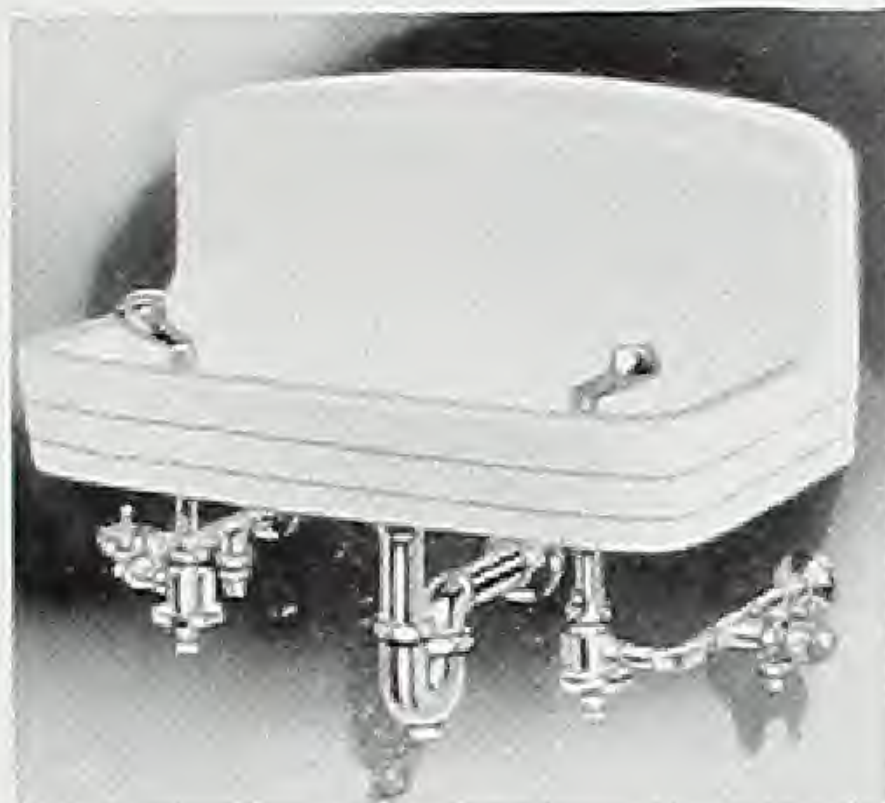
CRANE DRINKING FOUNTAINS

PROBABLY no single sanitary feature has as great an effect on production as ample quantities of fresh drinking water instantly available. In the wide line of Crane drinking fountains, there are types for every installation. Prices vary according to type, but all are Crane quality

throughout. Incorporated in these fountains is the latest scientific advance in drinking fountain construction. Danger of back siphonage is eliminated; they comply with health regulations. Crane fountains are designed for easy cleaning.



● C9215 *Oasis* vitreous china fountain. Chromium trim. Wall to front, 13".



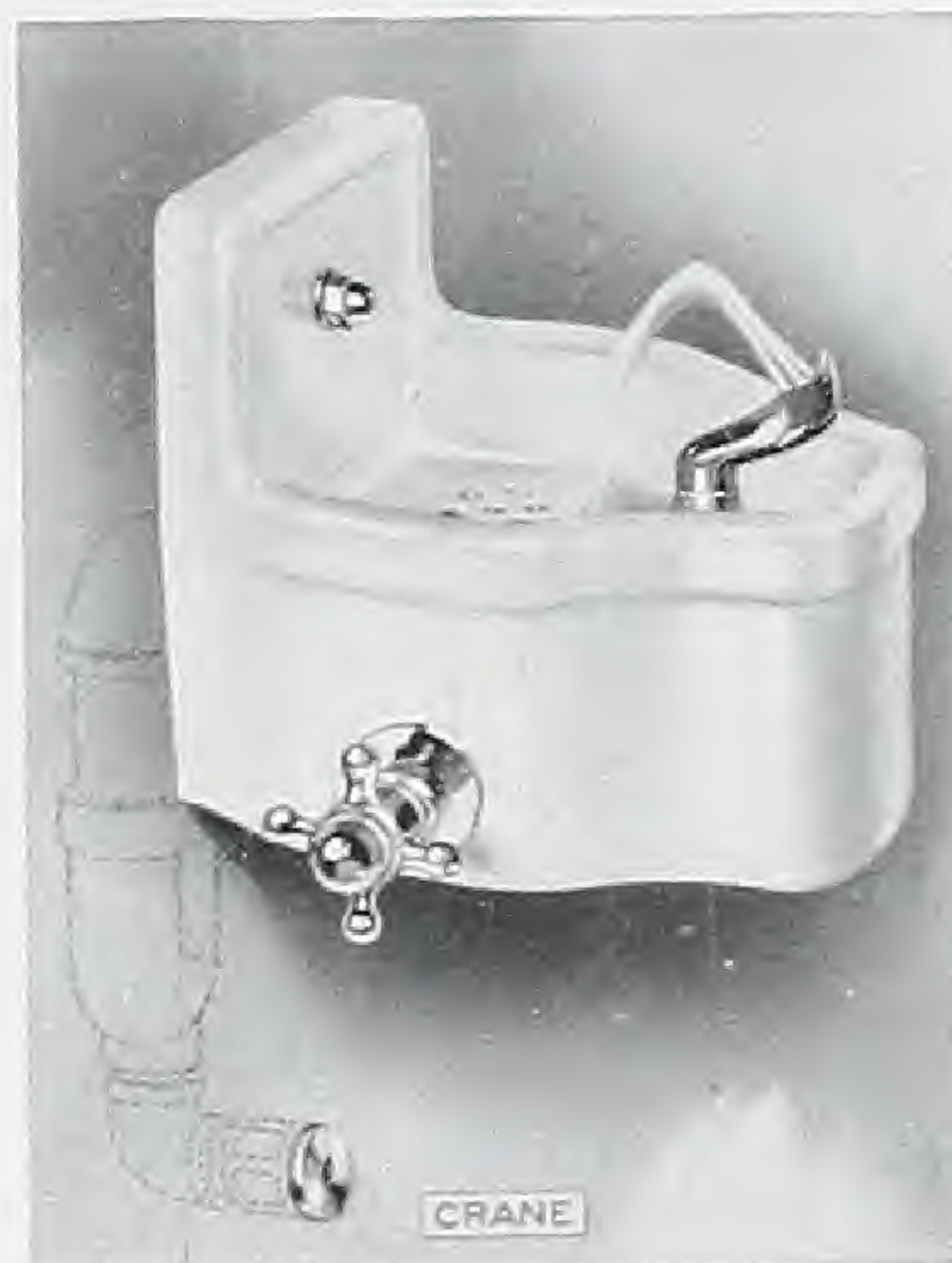
● C9171 *Erie* vitreous china fountain. Twin jets. Chromium plated. Width, 24". Wall to front 13".



● C9331 *Thurstend* fountain with galvanized receptor and "P" trap. Chromium-plated trim. 10" x 7½" receptor.



● C9157 *Thurstend* wall fountain. China receptor, porcelain enameled bracket. Chromium trim. Wall to front, 12".



● C9111 *Telephone* vitreous china fountain. Only 7½" x 10¼".



● C9268 *Corridor*, recess drinking fountain. Chromium fittings. 30" x 16". Does not extend beyond wall.



● C9060 *Corwith* wall drinking fountain. Chromium-plated bubbler. 12" wide, 13" wall to front.

PEDESTAL TYPES



● C9042 *Corwith* vitreous china, pedestal drinking fountain with *Newera* 3-stream angle jet. 28" and 34" high. Receptor is 12½" square.



● C9332 *Thurstend* galvanized drinking fountain. Automatic stream regulator.



● C9155 *Thurstend* pedestal fountain with vitreous china receptor. Automatic stream regulator. 34" high.

FOUNTAIN HEADS



● C9535 *Purflo* jet guard does not permit lips of user to touch outlet. Complies with many municipal and state codes.

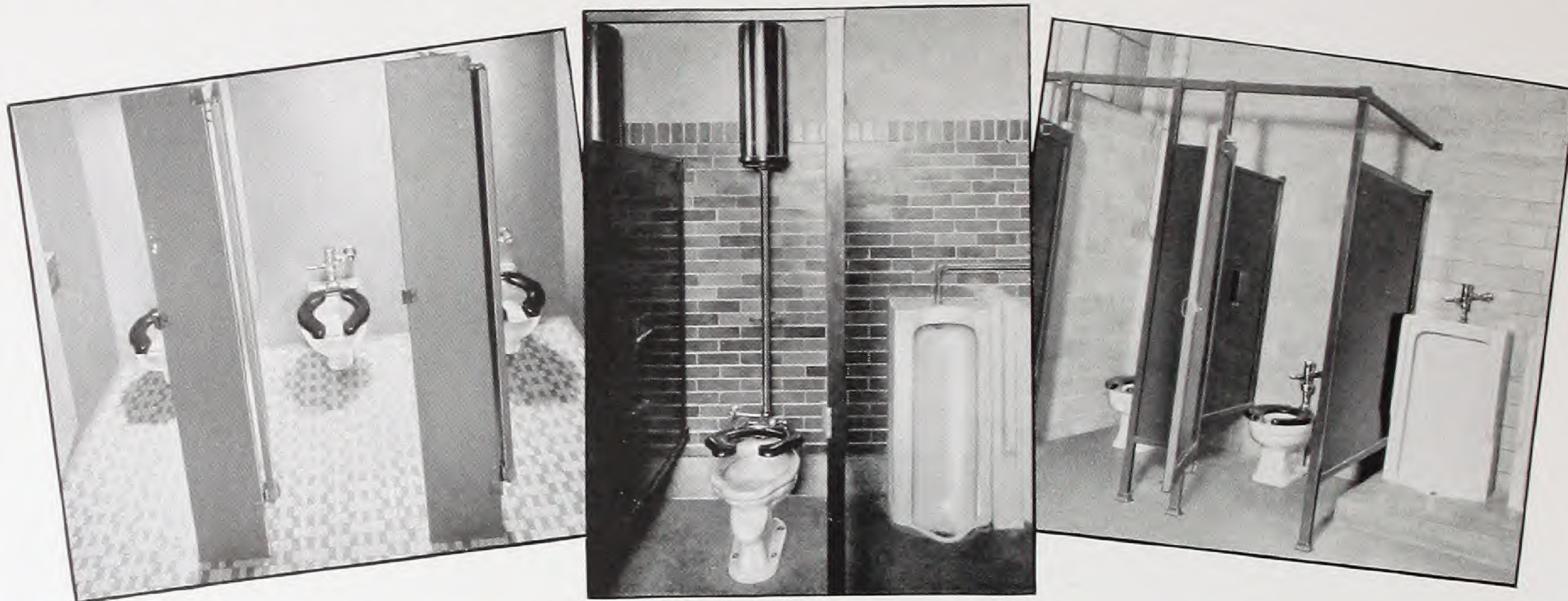


● C9540 *Newera* 3-stream angle jet, designed for sanitation and a satisfying drink. All brass construction.

CRANE CLOSETS

ALL Crane Closets are made of vitreous china and are quickly and easily cleaned. Flush valves are sure-working and positive in

action. Every closet is scientifically designed to secure maximum and vigorous flushing with a minimum amount of water.



CRANE WALL CLOSETS

Wall type closets have the advantage in industrial installations in that they permit cleaning beneath the closets. Where the floor of the washroom is concrete, a row of wall closets can be installed with a horizontal drainage line making it unnecessary to break through the floor at more than one point. All closets have large water seals to prevent escape of sewer gas. When installations are made in industrial plants it is well to take into consideration the easy cleaning of walls and floor. These should be of a sanitary material, non-absorbent, quickly and easily cleaned.

Made both in siphon-jet and blow-out types. Either type causes a sure, vigorous flush and economical use of water. Large traps prevent clogging, assuring maximum satisfactory service.



● C 11384 *Rapidway* blow-out wall closet; concealed *Delta* flush valve; open-front seat. Ideal for the plant.



● C 11320 *Walton* siphon-jet wall closet. *Delta* valve with *Vigilant* vacuum breaker. Quietness, large water surface—recommended for office toilets.



● C 11423 *Lowall* blow-out wall closet with twin jets. *Delta* flush valve concealed. Short, vigorous flush with smallest amount of water.



● C 11425 *Lowall*, twin-jet, blow-out wall closet, with seat-operated *Delta* flush valve. Open-front seat. Recommended for the plant where workers are careless about flushing the closet.



● C 11380 *Rapidway* blow-out wall closet; *Delta* flushing valve; open-front seat. Vigorous action, economical in use of water. Ideal for the office or plant toilets.

CRANE CLOSETS



● **C 11495 Speedway**, blowout closet; exposed *Delta* flush valve; open-front seat. Vigorous flush and clear trapway overcome clogging.



● **C 11664 Santon**, siphon-jet closet; *Delta*, seat-operated flush valve. Overcomes carelessness of the help. Quiet action and efficient flush.



● **C 11958 King Cotton** vitreous china wash-down closet with large waterways. *Beta* flush valve. It can take hard use and abuse. Has found wide acceptance in steel and textile mills and similar plants.



● **C 11660 Santon**, siphon-jet, floor-type closet; exposed *Delta* flushing valve. Recommended for the factory office.



● **C 11560 Purton**, siphon-jet closet; exposed *Delta* flush valve. Quiet action, extra large trapway and deep water seal recommend it for both office and plant.



● **C 11985 Giant** vitreous china wash-down closet with *Beta* flushing valve. Heavily built to withstand hard use in factories.



● **C 11000 Merit** closet with close-coupled vitreous china tank. For the private office where quiet action is desirable.



● **C 11125 Neuton** wash-down closet with jet; *Neumode* low tank. For the private office or factory office.



● **C 11955 King Cotton** vitreous china wash-down closet. Porcelain enameled. Cast iron tank. Sturdily built to withstand rough handling.

FLOOR-OUTLET CLOSETS

The complete Crane line of floor closets includes all styles, either flush valve or tank operated, with siphon jet, reverse trap, blow-out or wash-down action. All flush valve closets are equipped with the Crane Vigilant Vacuum Breaker to prevent back siphonage. Each is designed for a particular type of installation. Licensed master plumbers can recommend the closet best suited to your needs. In industrial installations large trapways and easy cleaning are important features. Crane closets have these features.

CRANE CLOSETS

SEAT OPERATED

Many plants desire seat-operated closets to overcome the carelessness of employees. These are of

the siphon-jet and wash-down types with seat-operated pressure valves, positive in action with a minimum number of working parts to prevent excess wear.



● C 12400 Freeze-proof, seat-operated, enameled inside. Has cast iron flushing rim hopper with pressure tank. For the factory, yard, etc.

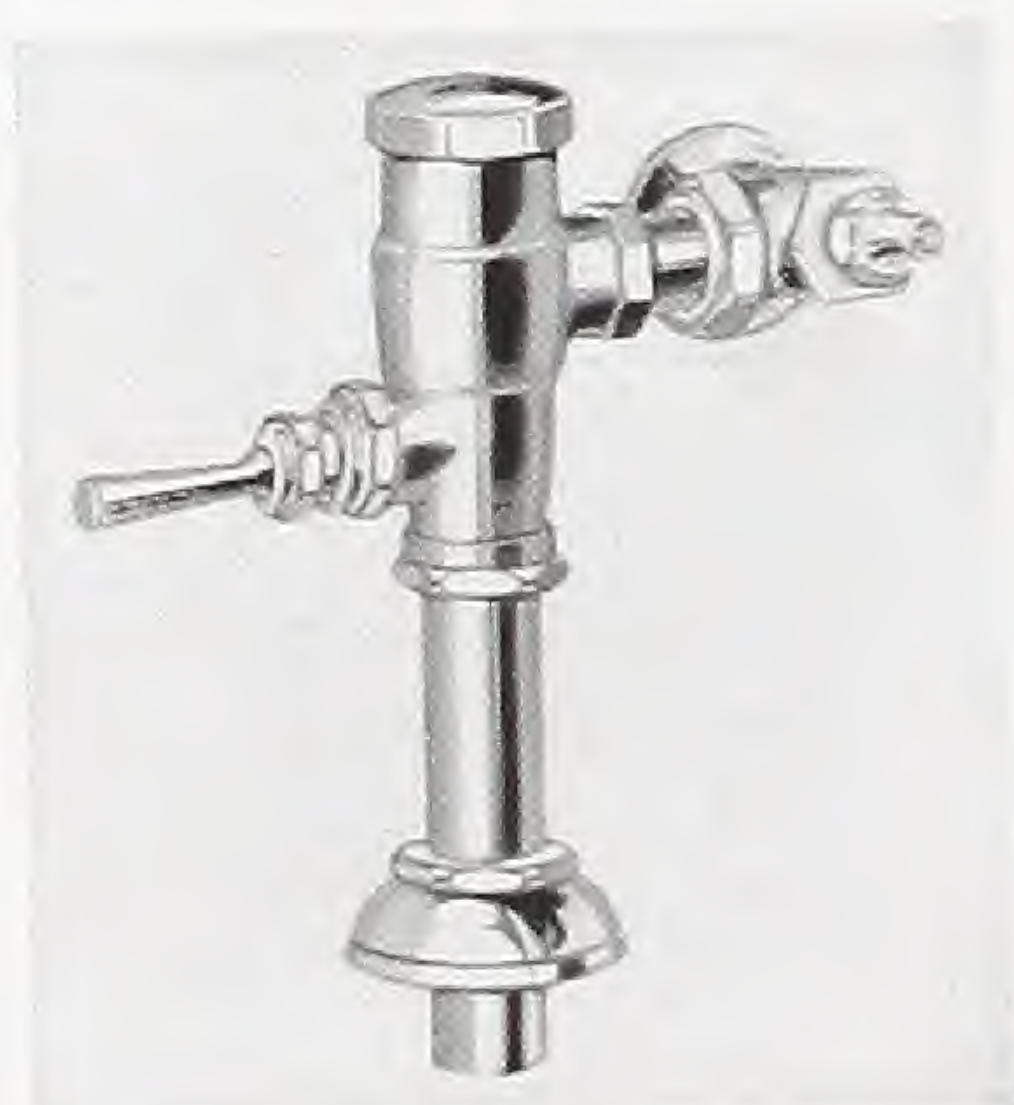


← C 11682 Santon siphon-jet, seat-operated closet, with galvanized tank. Recommended where seat-operated trimmings are desired but pipe sizes prohibit use of flush valves.



→ C 12130 Saxonet vitreous china, seat-operated wash-down closet. Galvanized pressure tank. Automatic flushing overcomes carelessness of employees.

CRANE FLUSHING VALVES



● C 12901 (Patented) Delta valve. Non-hold-open feature. Renewable seat. Handle eccentric adjusts flush.



● C 13119 Beta flush valve. Regulating screw in bonnet. Renewable seat. Chromium or nickel plated.



● C 12901 (Patented) Delta flushing valve equipped with C 13270 Vigilant vacuum breaker.



● C 13052-A Alpha concealed foot-operated flushing valve with flush connection for back inlet closets.



● C 17896 (Patented) Marvel float-operated, automatic urinal tank valve. Filling intervals 5 to 60 minutes without wire-cutting or clogging. Will drastically reduce water and maintenance bills.

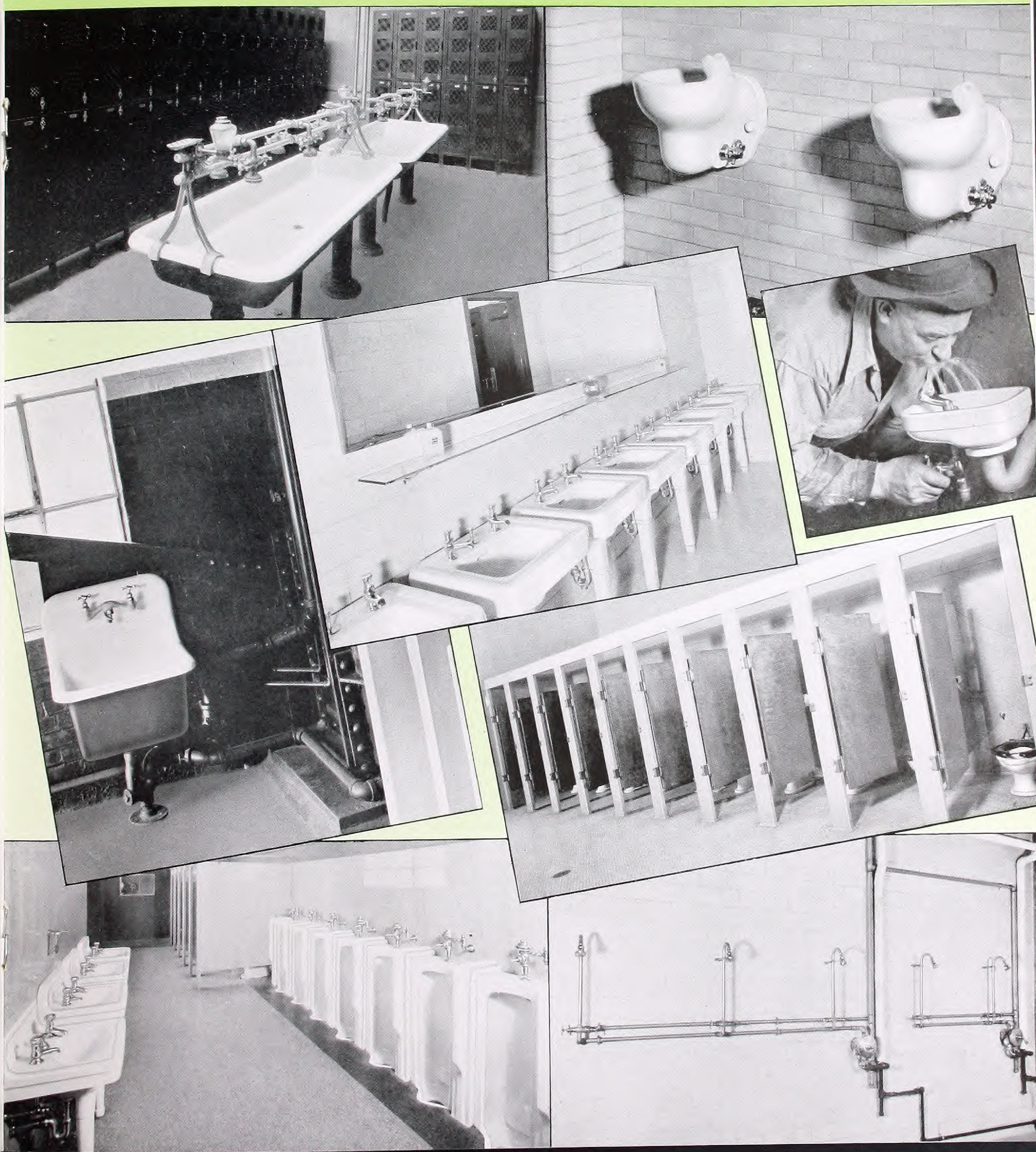


● C 17890 (Patented) Alert automatic urinal tank valve. No moving parts—nothing to wear. Flushes at 1 to 60 minute intervals.



● C 13272 (Patented) Vigilant vacuum breaker. The dangers of back siphonage are well known. This vacuum breaker, installed in supply lines, will prevent waste from closets being drawn into the supply pipes, even when the closets are flooded.

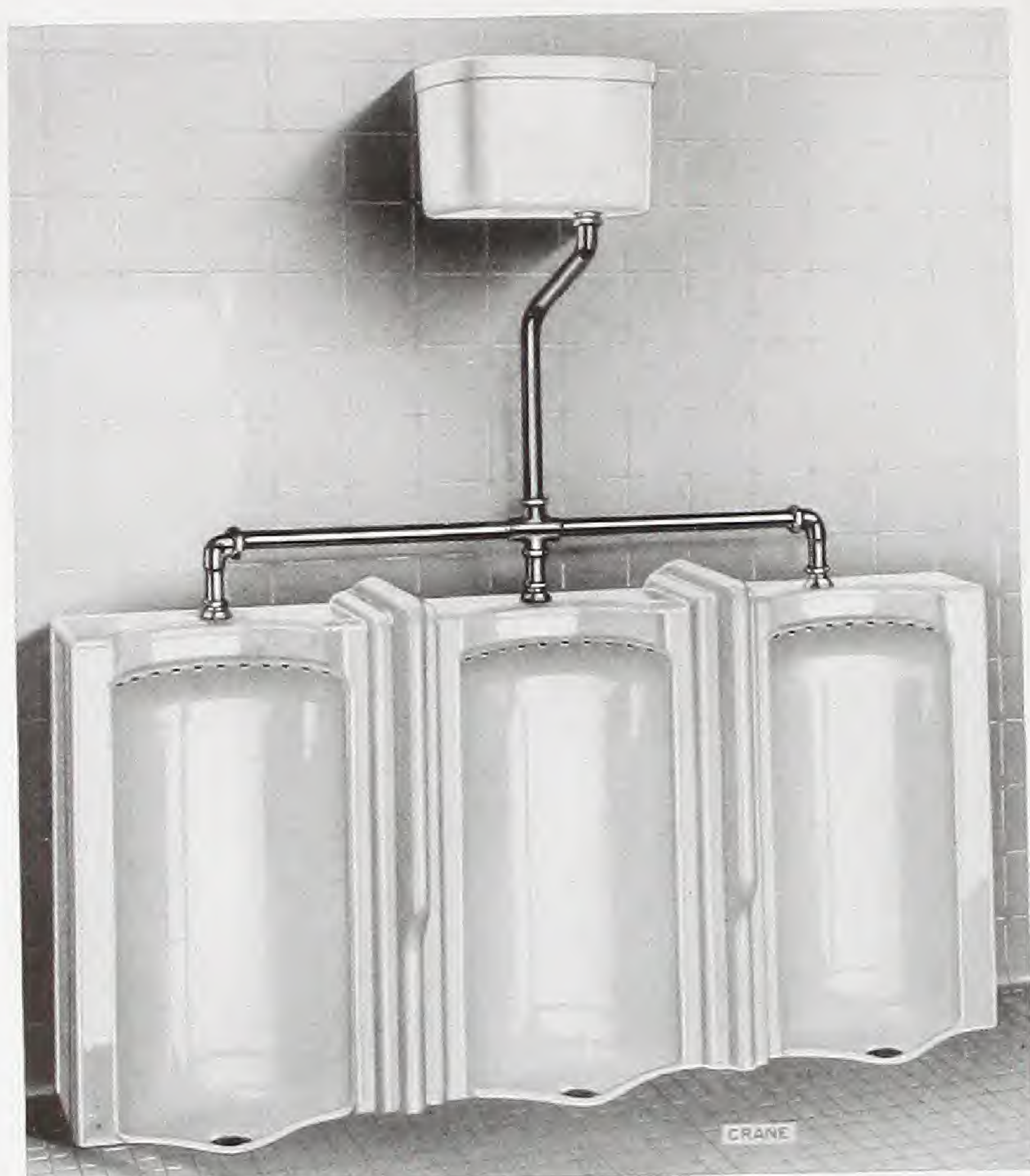
TYPICAL INSTALLATIONS OF CRANE PLUMBING EQUIPMENT FOR INDUSTRIAL PLANTS



CRANE URINALS

HERE are shown a few of the many urinals in the Crane line designed for the use which is to be expected in industrial plants. The stall-type urinals shown below are made of porcelain (all clay) or vitreous china as desired. They are designed for extreme ease in cleaning and the flush washes them quickly

and completely. In many plants urinals of this type are installed with the floor sloping toward the urinal. Thus any excess water in scrubbing the floor, etc., drains to the urinal. As refuse may be accidentally kicked into this type urinal, they should be protected with a screen over the outlet.



● *C 15400* Vitreous china urinal stalls with integral flushing rims and extended connecting shields. Vitreous china tank with *Alert* Automatic flushing valve. Furnished singly or in batteries. Stalls are made in 15, 18, 21 and 24 inch widths. Specify *C 15450* if porcelain stalls are wanted.



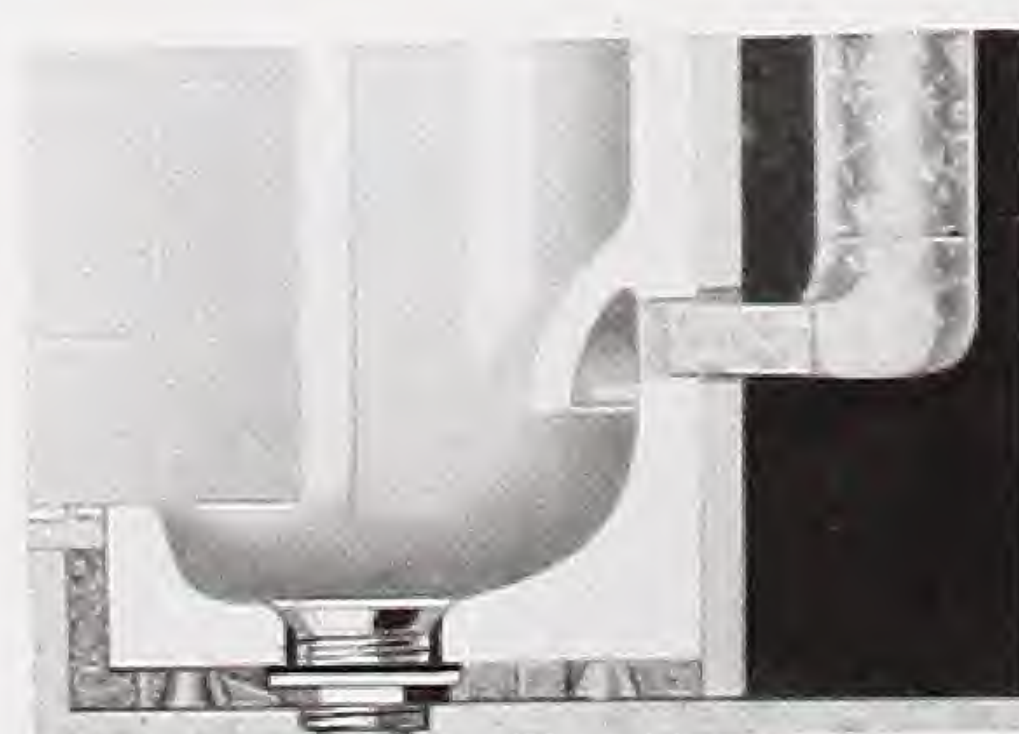
● *C 15420* Vitreous china, straight front urinal stalls with integral flushing rim. Tank is vitreous china with *Alert* automatic valve. One tank will flush up to four urinals. Stalls made in four sizes. Furnished singly or in batteries. Specify *C 15470* for porcelain stall.



Hooded vents in urinal stalls help to eliminate odors in toilet rooms.



(Above) Crane integral flushing rim—distributes water more evenly—cleans more thoroughly.



Cross-section of hooded vent urinal installation.



(Left) Crane vitreous china or porcelain extended shields for urinal stalls.



● *C 15415* Vitreous china urinal stalls with *Delta* hand-operated, self-closing flushing valves. Have integral extended shields and flushing rims. Strainers are chromium-plated brass. Made in 18-inch and 24-inch widths—furnished singly or in batteries. If porcelain stalls are preferred, specify *C 15465*.

CRANE URINALS

THE urinals shown below are of the wall type and offer the advantage of ease in cleaning and low cost. Made of vitreous china, they are non-staining and of lasting quality.



● C 15601 *Correcto* vitreous china washout urinal and tank, with integral extended shields, integral strainer and trap with cleanout.



● C 15621 *Deflecto* vitreous china blowout urinal and tank. Slope back reduces splashing over the rim.



● C 15609 *Correcto* vitreous china washout wall urinal with shields. *Delta* flush valve.



● C 15617 *Rio* vitreous china blowout urinal with jet. *Delta* flush valve with *Vigilant* Vacuum Breaker.



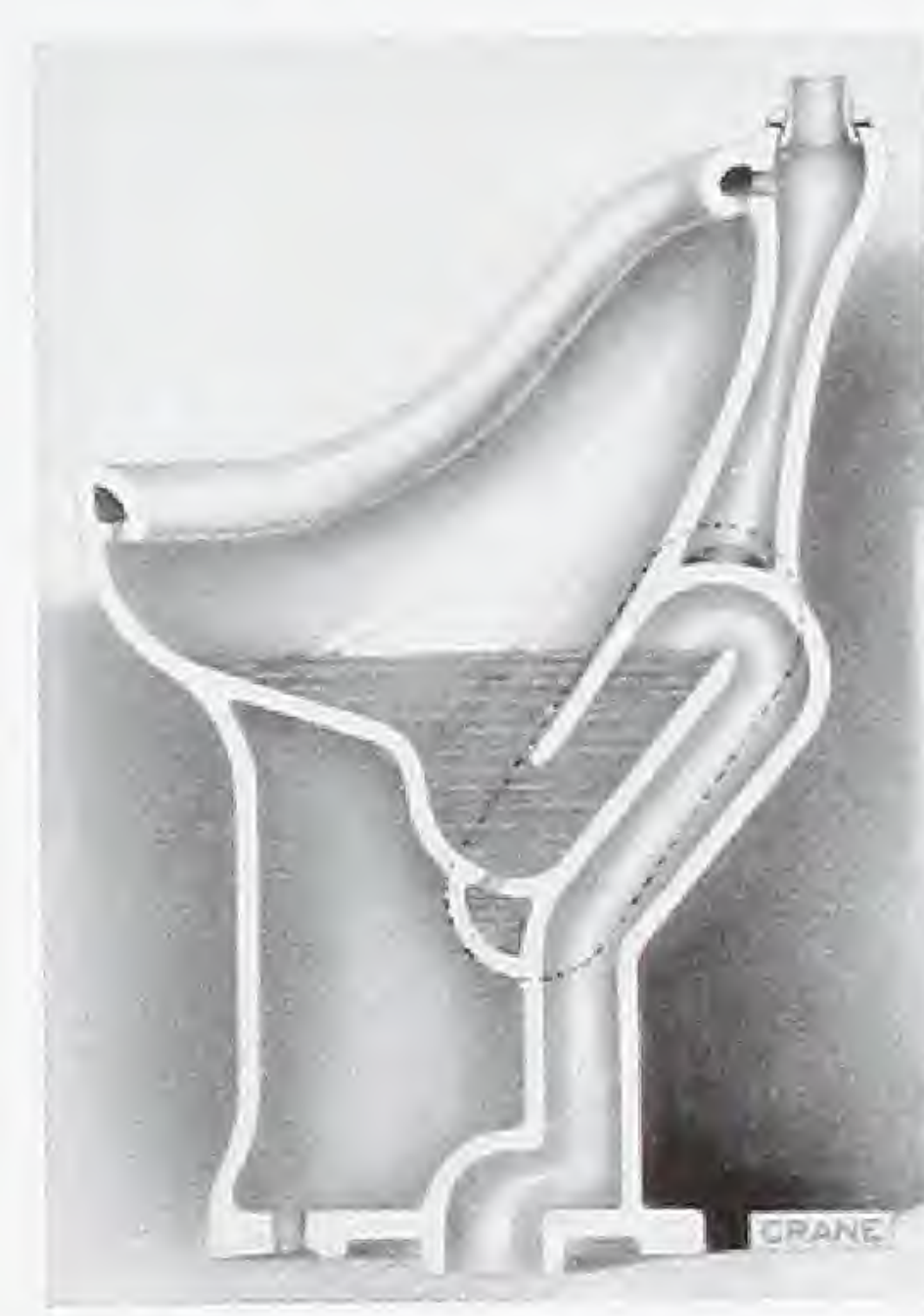
● C 15665 *Manhattan* vitreous china, siphon-jet wall urinal. *Delta* valve and *Vigilant* Vacuum Breaker.



● C 15629 *Expedio* vitreous china blowout urinal with jet.



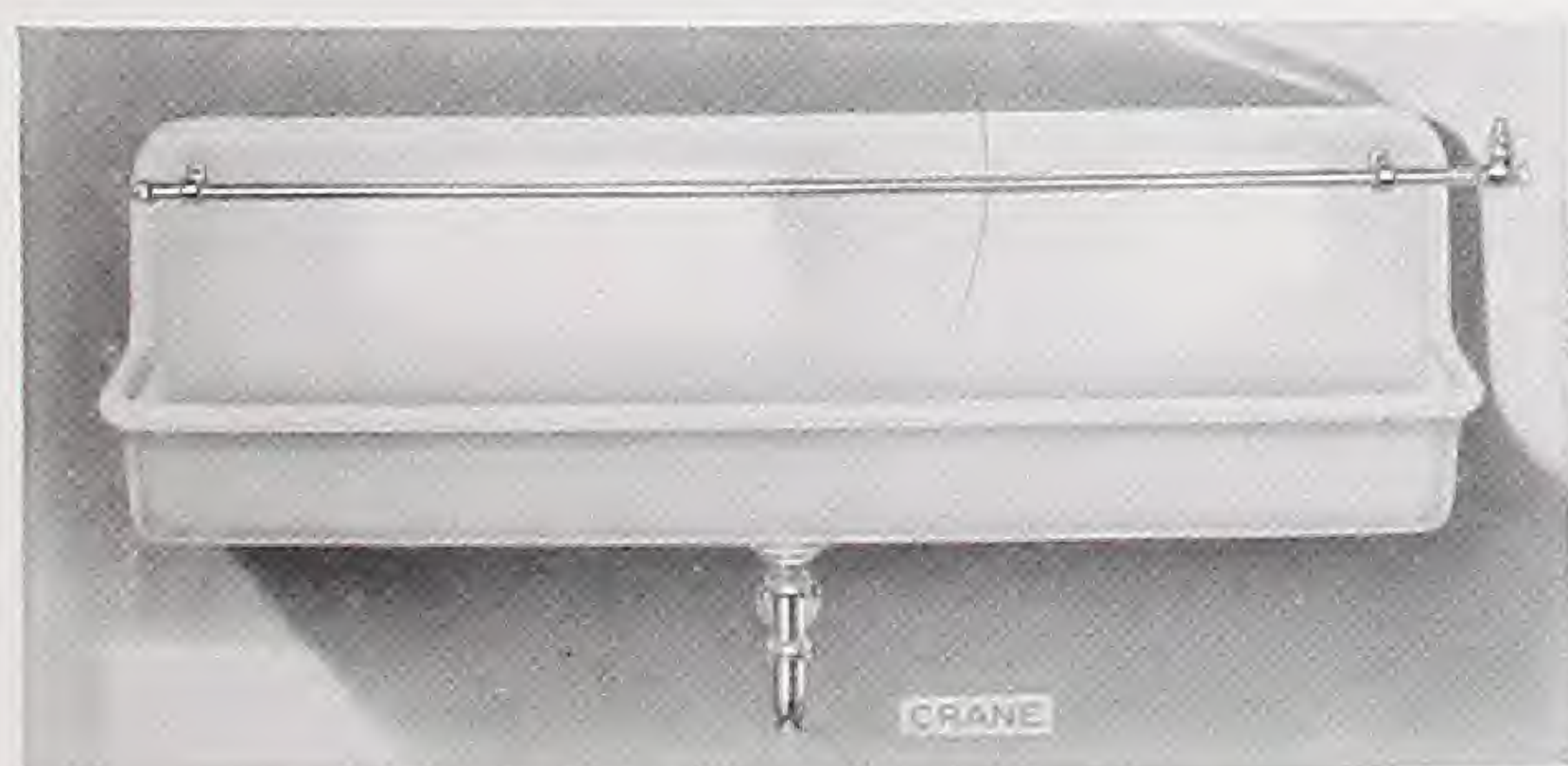
● C 15643 *Vorto* vitreous china siphon-jet urinal. Prompt, quiet flush.



● Sectional view of C 15643 *Vorto* vitreous china siphon-jet pedestal urinal.

CRANE TROUGH URINALS

Trough urinals possess the advantage of low cost. They are porcelain enamel on cast iron and may be had with or without lips as indicated. One tank serves the entire fixture, which means a saving in water over the individual type urinals.



● C 15764 Cast iron trough urinal, porcelain enameled inside; painted outside. Chromium-plated perforated wash-down pipe for continuous flush. Made in six lengths: 2, 2½, 3, 3½, 4 and 5 feet.



● C 15761 Urinal, porcelain enameled inside, painted outside, cast iron trough. Enameled iron tank. *Alert* automatic flushing valve. 2, 3 and 5 foot lengths.



● C 15763 Porcelain enameled inside, painted outside, cast iron trough urinal and enameled inside tank. Six lengths: 2, 2½, 3, 3½, 4 and 5 feet.

CRANE SINKS

SERVICE AND MOP SINKS

Sinks of this kind are required by the janitor in every factory or office building when cleaning and for disposal purposes. This sink may be made of vitreous china or porcelain

enamel on cast iron. Of necessity, such a sink must be built to stand hard usage. The trap should be not less than two-inch pipe size. Crane sinks are built to meet this kind of service.



● C 21360-O Porcelain enameled inside cast iron service sink; individual faucets. Three sizes: 20" x 16", 22" x 18", and 24" x 20".



● C 21390-CB Porcelain enameled inside cast iron service tank; double faucet with pail hook and brace. Two sizes: 22" x 18" and 24" x 20".



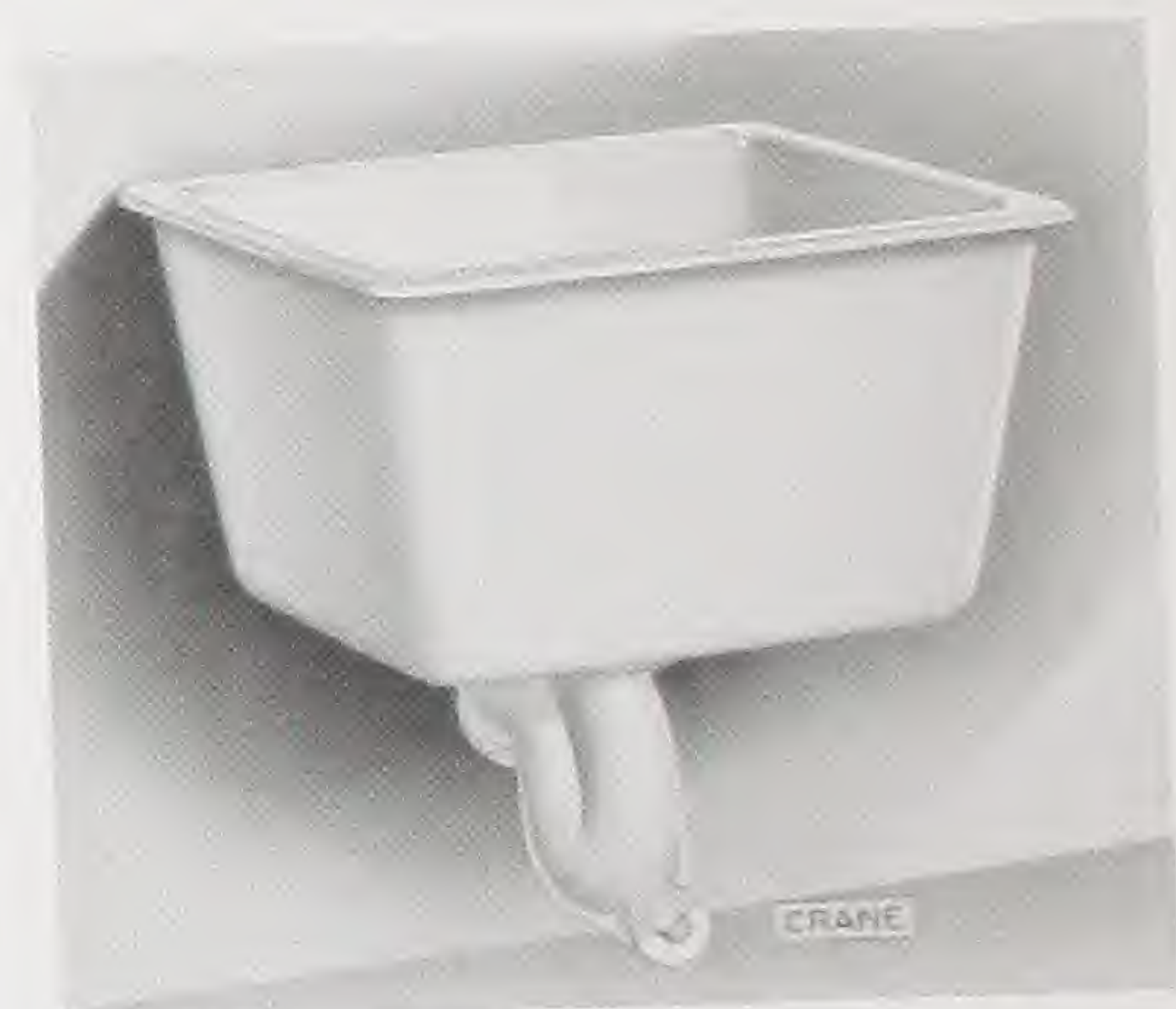
● C 21338-CB Vitreous china slop sink on 3" "S" trap standard. Fitted with rim guards. Two sizes: 20" x 16", 22" x 18".

CRANE SINKS FOR SPECIAL SERVICES

In almost every plant there is need for a sink for some special service, such as in the lunchroom, engine room or boiler room. The sinks shown below are only three from the complete Crane line adaptable to special services.



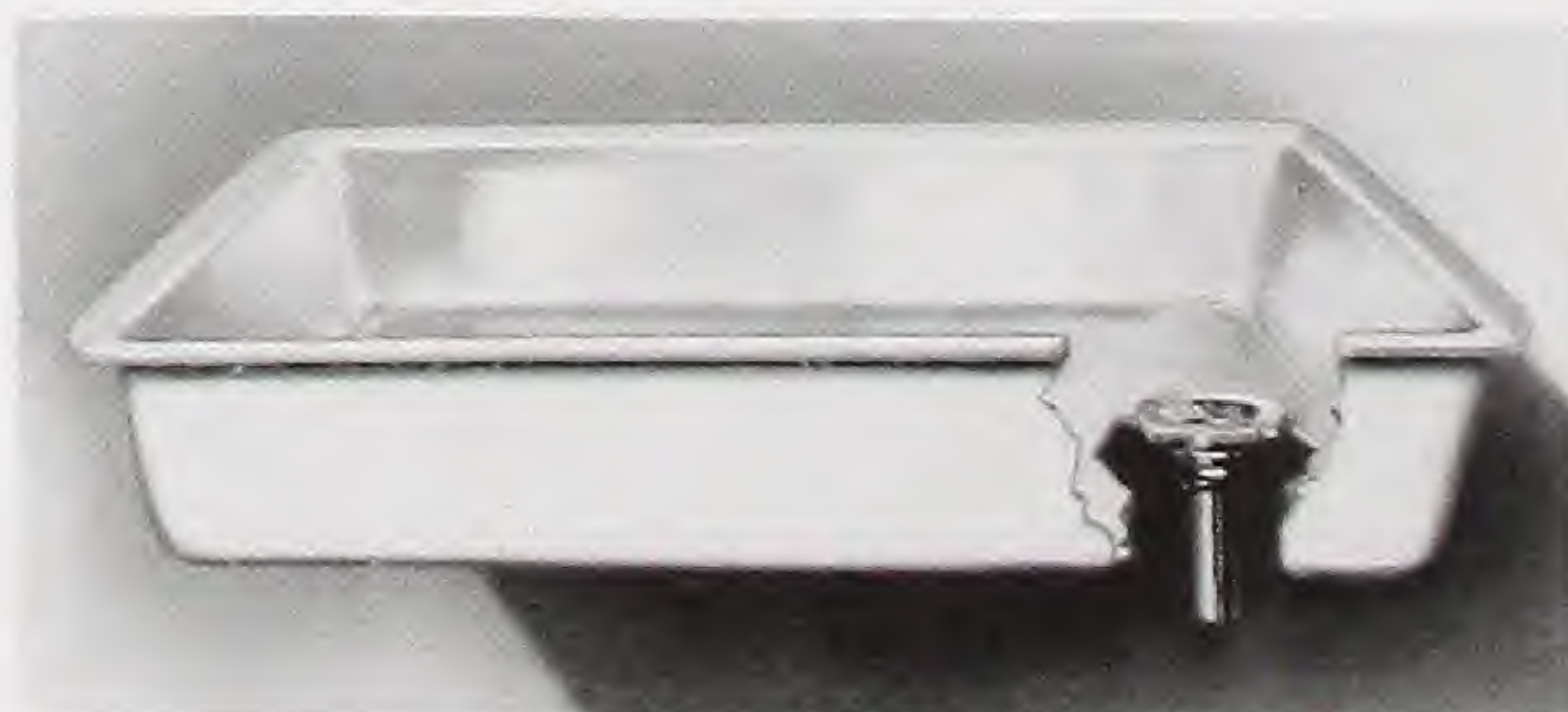
● C 7150 Mop service sink. Enameled inside, roll rim, with 12" back. Has front rim guard of Monel metal. Supply fixture includes hose. Sizes: 20" x 16", 22" x 18", 24" x 20".



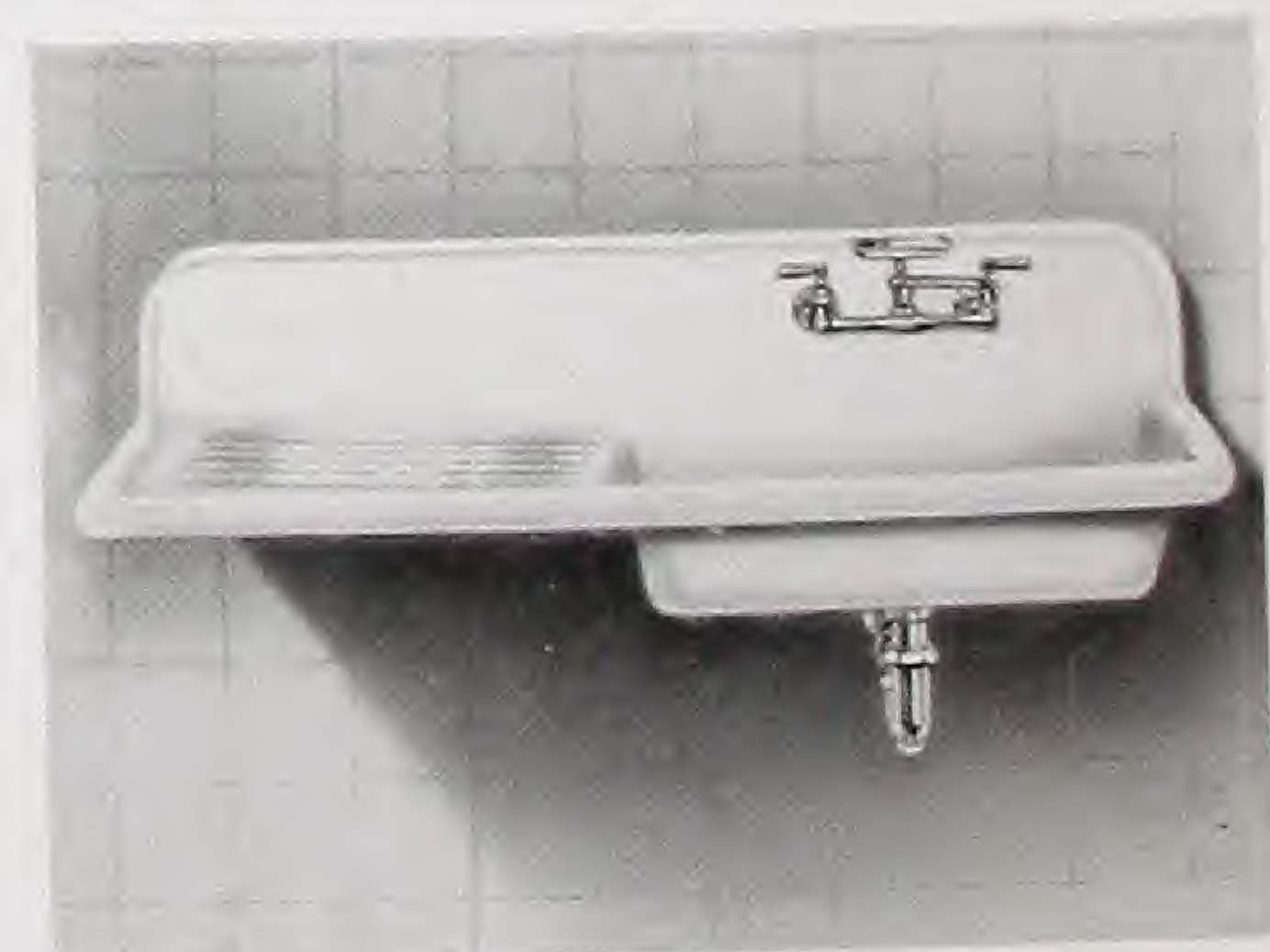
● C 21408 Service sink of cast iron. Enameled inside, painted outside, with flat rim. Has concealed hanger and wall brace. Sizes: 20" x 16", 22" x 18", 24" x 20".



● C 19330 Porcelain enameled cast iron roll-rim sink. With swinging spout mixing faucet and glass soap dish. Made in 9 sizes.



● C 19350 Enameled inside, cast iron, flat-rim sink with brass strainer in ten sizes. Also 3 sizes with center outlet and 2 sizes with 2 compartments.



● C 19230-L Porcelain enameled cast iron drainboard sink with swinging spout mixing faucet. Also with right-hand drainboard. Made in 2 sizes.

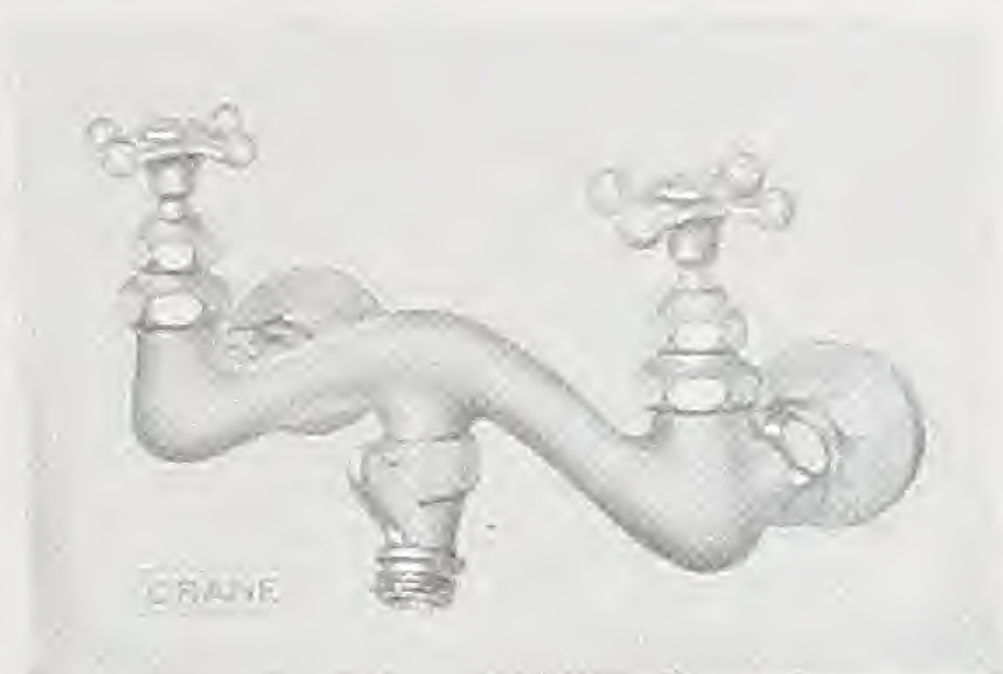
CRANE PLUMBING BRASS

TRIMMINGS such as faucets, valves, control stops and waste controls are the very heart of plumbing installations. Here again almost a century of fine valve designing has placed Crane in a pre-eminent position. From the selection and rigid testing of raw materials to the final plating and polishing of the finished

product, every step is under absolute control to assure the maximum of quality in design and manufacture. Crane faucets, valves, stops and waste controls will prove an investment in economy in the long run—they will pay for themselves. If your faucets are wasting water or need servicing, replace now with Crane.



● C 31103-N *Telsa* compression faucet. Finished brass, nickel or chromium plated. $\frac{1}{2}$ ", $\frac{3}{4}$ ", 1" sizes.



● C 32780-N *Improved Telsa* rough-finished, sink faucet. Fixed spout with pail hook and hose end.



● C 31332-N *Agilis* faucet. Finished brass, nickel or chromium plated. $\frac{1}{2}$ ", $\frac{3}{4}$ " sizes.



● C 31342-N *Agilis* faucet. Finished brass, nickel or chromium plated. $\frac{1}{2}$ ", $\frac{3}{4}$ " sizes.



● No. 801 Brass ground key faucet. Hose end. $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{3}{4}$ " and 1" sizes.



● C 31550-A *Improved Triumph* self-closing faucet. Nickel or chromium plated. $\frac{1}{2}$ " size.



● C 31570-A Like C 31550-A but with extension screw flange.



● C 32720-A *Sediment* faucet. Non-heating, easy grip wheel handle. $\frac{1}{2}$ ", $\frac{3}{4}$ " sizes.



● C 31902-N *Improved Agilis* chromium-plated double lavatory faucets.



● No. 800 Crane ground key faucet with plain end. In $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{3}{4}$ " and 1" sizes.



● C 32753-A *Rival* sink faucet. Hose end. Swinging spout. Nickel or chromium plated.



● C 32735-SN *Improved Agilis* swinging spout sink faucet. Male supply connection chromium plated.



● C 32688 Rough nickel plated brass lawn faucet. Loose key. $\frac{1}{2}$ " and $\frac{3}{4}$ " sizes.



● C 32472-N Same as C 32485 except with fixed goose-neck spout.



● C 32892-N *Improved Telsa* chromium-plated faucet. Pail hook and brace on spout.



● C 31298-N *Telsa* loose key faucet. Finished brass, nickel or chromium plated. $\frac{1}{2}$ ", $\frac{3}{4}$ " sizes.



● C 31144-N *Telsa* faucet. Chromium or nickel plated. $\frac{1}{2}$ ", $\frac{3}{4}$ " sizes.



● C 32485 *Improved Agilis* double work-board faucet with $8\frac{1}{2}$ " swinging spout and indexed metal lever handles. Seats are renewable. Has $\frac{1}{4}$ " male iron pipe tail-pieces. Chromium plate finish.



CRANE PLUMBING BRASS



● C 31955 *Metro* self-closing, slow-closing, push-button faucet.



● C 31970-R *Improved Triumph Jr.* self-closing faucet.



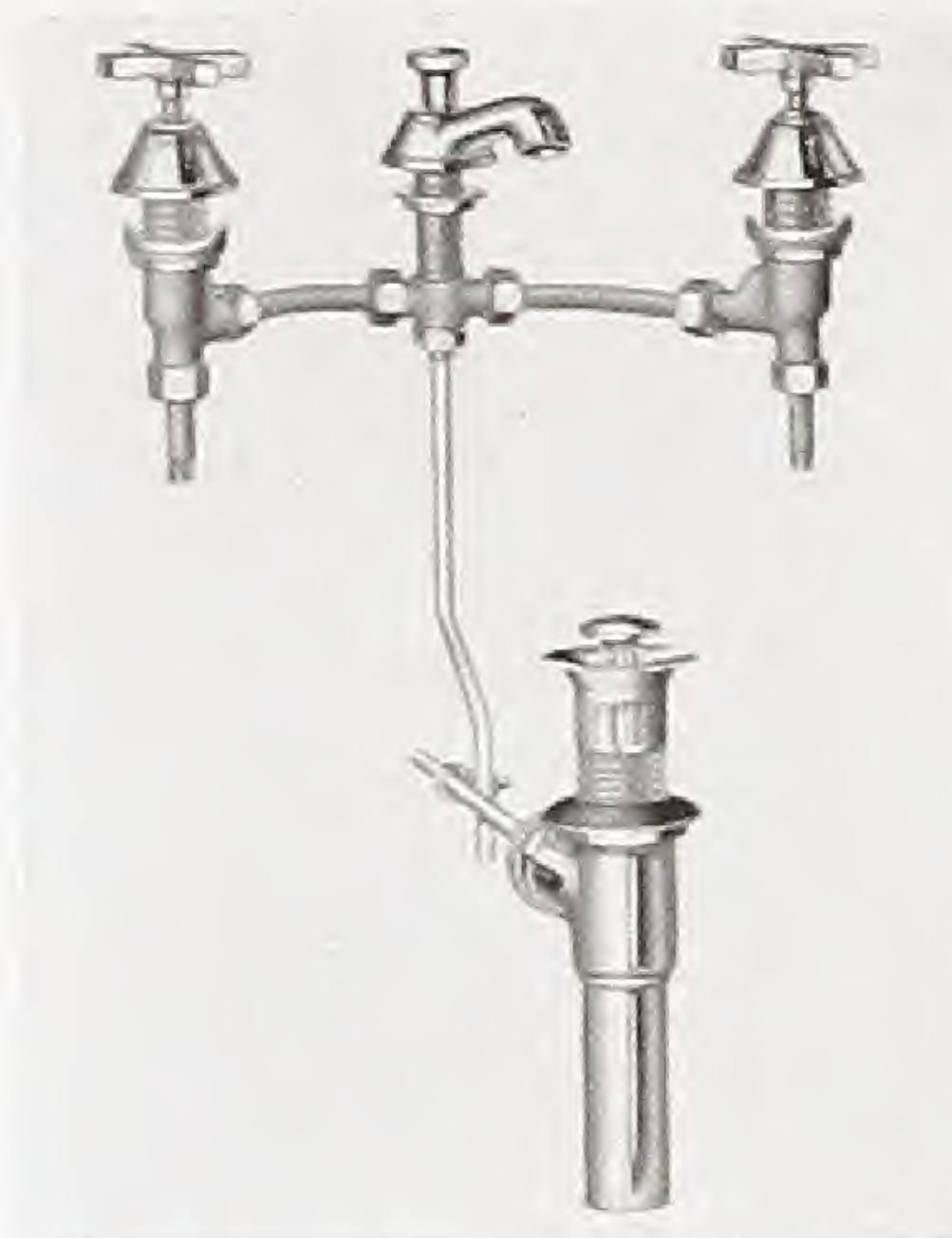
● C 31960-R *Improved Triumph* self-closing faucet.



● C 31806 *Improved Telsa* compression faucet. Renewable seat. New-sleeve units.



● C 31843-RN *Improved Telsa Jr.* compression faucet.



● C 32284-R *Rival* supply and indirect lift, pop-up waste fixture.



● C 32293 Chromium-plated quick compression lavatory supply fixture with arm action metal blade handles and low pattern spout. Has renewable seats—and female union supply connections for $\frac{3}{8}$ " and $\frac{1}{2}$ " iron pipe.



● C 32290-A Chromium-plated lavatory supply fixture with goose-neck spray.

VALVES AND TRAPS



● C 32644-A Heavy, rough brass compression stop. Sizes: $\frac{1}{2}$ ", $\frac{5}{8}$ " and $\frac{3}{4}$ ".



● C 32645 Rough brass, angle pattern stop. Sizes: $\frac{1}{2}$ " and $\frac{3}{4}$ ".



● C 32652 Rough brass valve with automatic drain. Sizes: $\frac{1}{2}$ " and $\frac{3}{4}$ ".



● C 32654-A Rough brass compression stop with drain. Sizes: $\frac{1}{2}$ ", $\frac{5}{8}$ " and $\frac{3}{4}$ ".



● C 32656-A Rough brass compression stop and drain for iron pipe. Made in sizes: $\frac{1}{2}$ ", $\frac{5}{8}$ " and $\frac{3}{4}$ ".



● C 33976 Cast brass "P" trap with cleanout.



● C 33900 Cast brass adjustable swivel type "P" trap.



● C 33988 Cast brass "P" trap with adjustable swivel.



● C 33910 Cast brass adjustable swivel type "S" trap.

CRANE-EQUIPMENT FOR THE INDUSTRIAL HOSPITAL



ALL industrial plants readily recognize the importance of the first-aid room or plant hospital in the caring for emergency cases. There is no question but that countless lives have been saved and untold suffering prevented by efficient first aid. But progressive plant managers are coming to look upon the hospital more and more in the light of a preventive to time loss and a reducer of compensation costs.

This new viewpoint has led to a modern type of industrial hospital, equipped, of course, with an emergency operating table and other necessary equipment for first-aid treatment. Hydrotherapeutic equipment, such as arm baths, leg baths and continuous flow baths, as well,

have proved their value in curative treatment, advancing the recovery of injured workmen and enabling their early return to work.

Medical Directors recognize the value of baths in shortening the time of recovery. Charles P. Hutchins said, "The surgeon can but make healing possible. . . . The real cure is the restoration of muscular activity toward which all surgical and physical effort aims."

If your plant is not already equipped with hydrotherapeutic equipment, we suggest that you discuss this important addition with your Medical Director. We shall gladly confer with him on the equipment best suited to your needs.

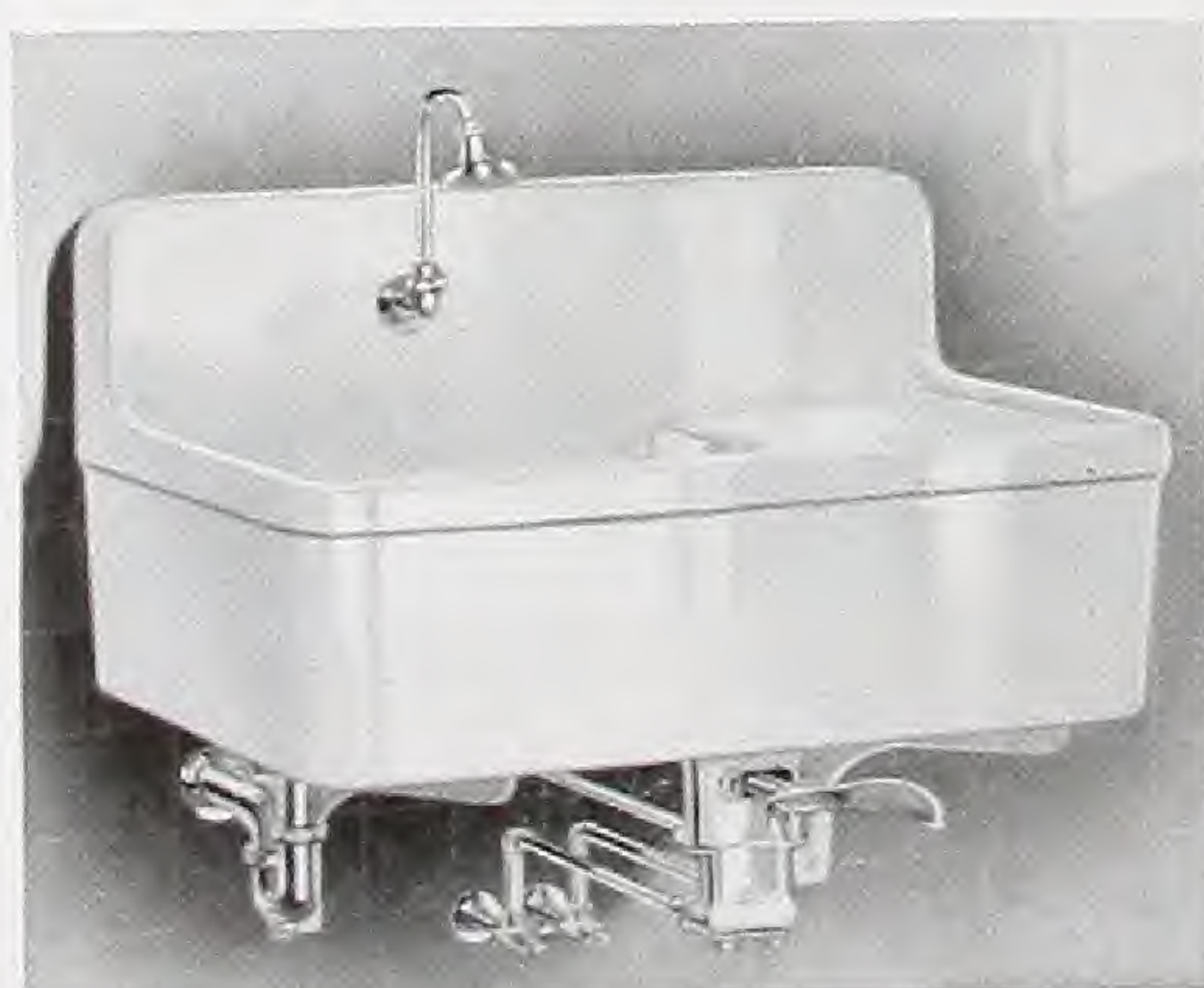
HOSPITAL LAVATORIES AND SINKS



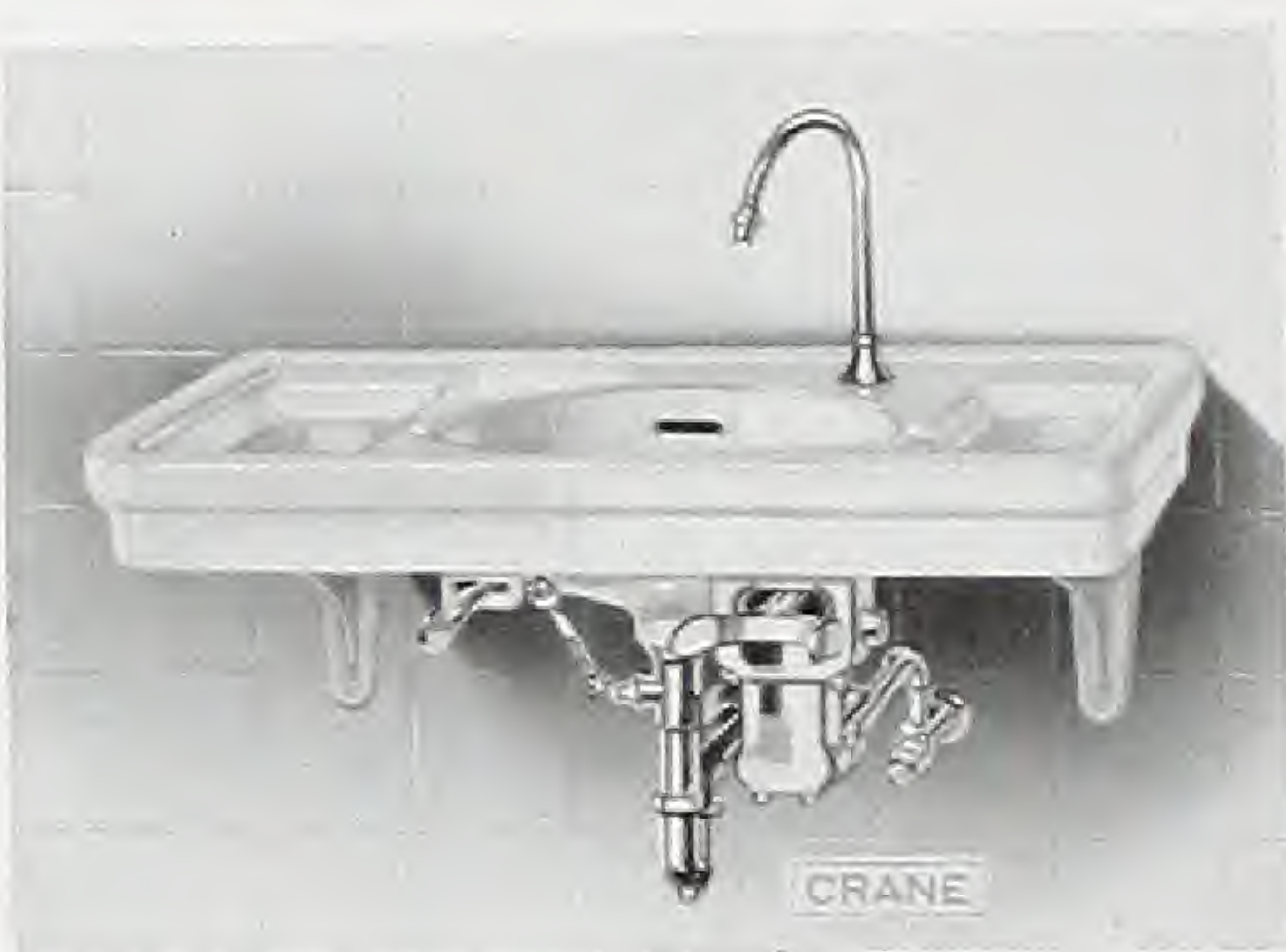
● Typical installation of Crane vitreous china leg-type surgeon's lavatory with instrument trays. Equipped with knee action waste control and foot pedal operated self-closing supply valves.



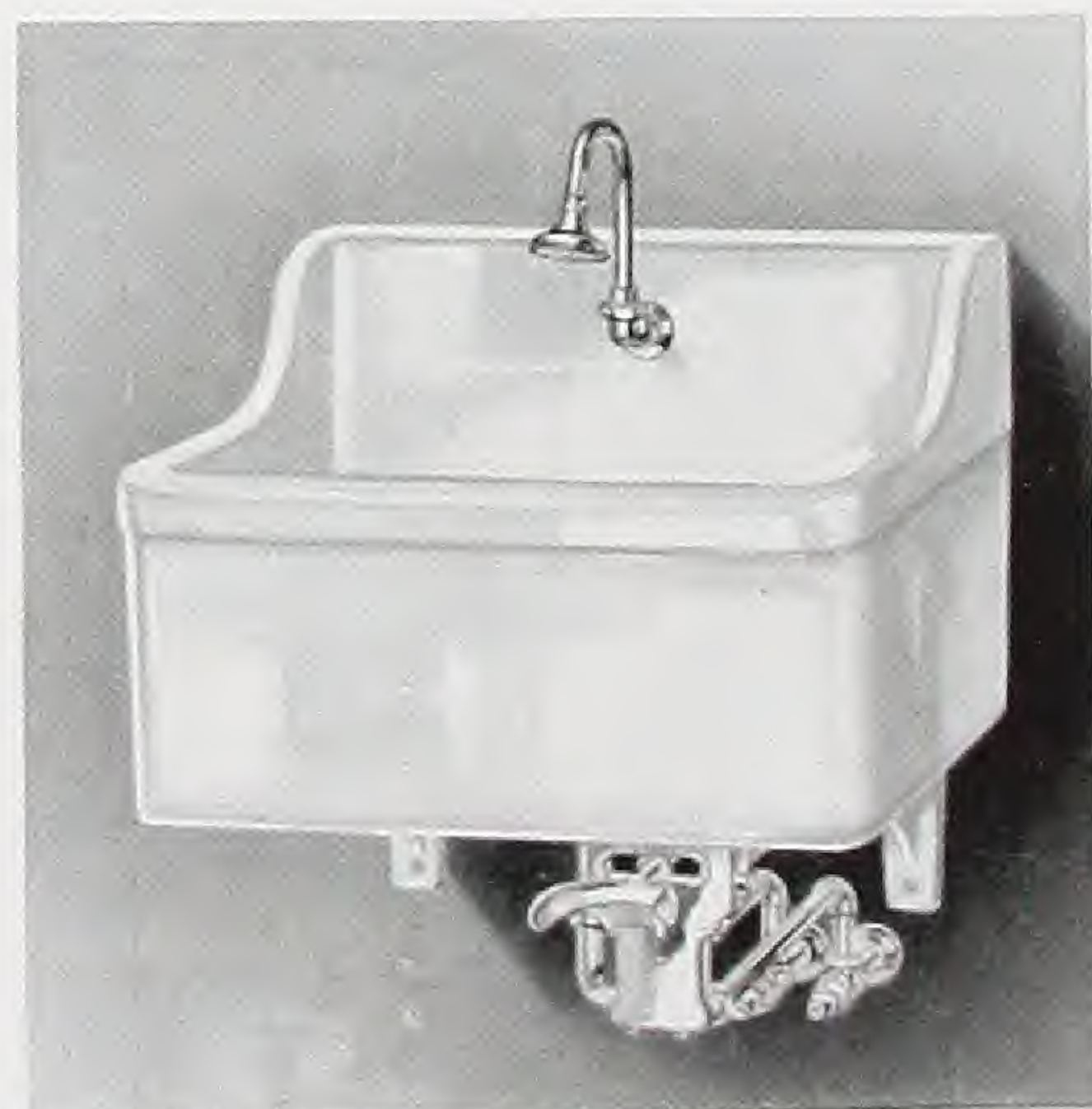
● C 5442 *Norwich* vitreous china lavatory with pedal-action, self-closing mixing valve, and gooseneck spout with 2-inch spray. Has *Lever-Action Securo* quick-draining waste control. Made in three sizes: 20" x 18", 24" x 21", and 27" x 22".



● C 5617 *Cornwall* all-service sink is of vitreous china with 8" integral back and right drainboard. Supply valve is mixing type—knee action operated, with gooseneck spout. Size, 36" x 22".



● C 5340-A *Crane Surbas* wall hanging vitreous china surgeon's lavatory with instrument trays. Mixing supply valve and waste control are knee action operated. Sizes: 28" x 20" and 36" x 24".



● C 5650 *Mayo* wash-up sink of vitreous china. Wall-hanging type with 6" back and return ends. Has gooseneck spray spout and knee action mixing supply valve. Size, 30" x 22".

● Nurses' typical workroom illustrating Crane porcelain (all clay) instrument sink with easy-working arm action supply valve.



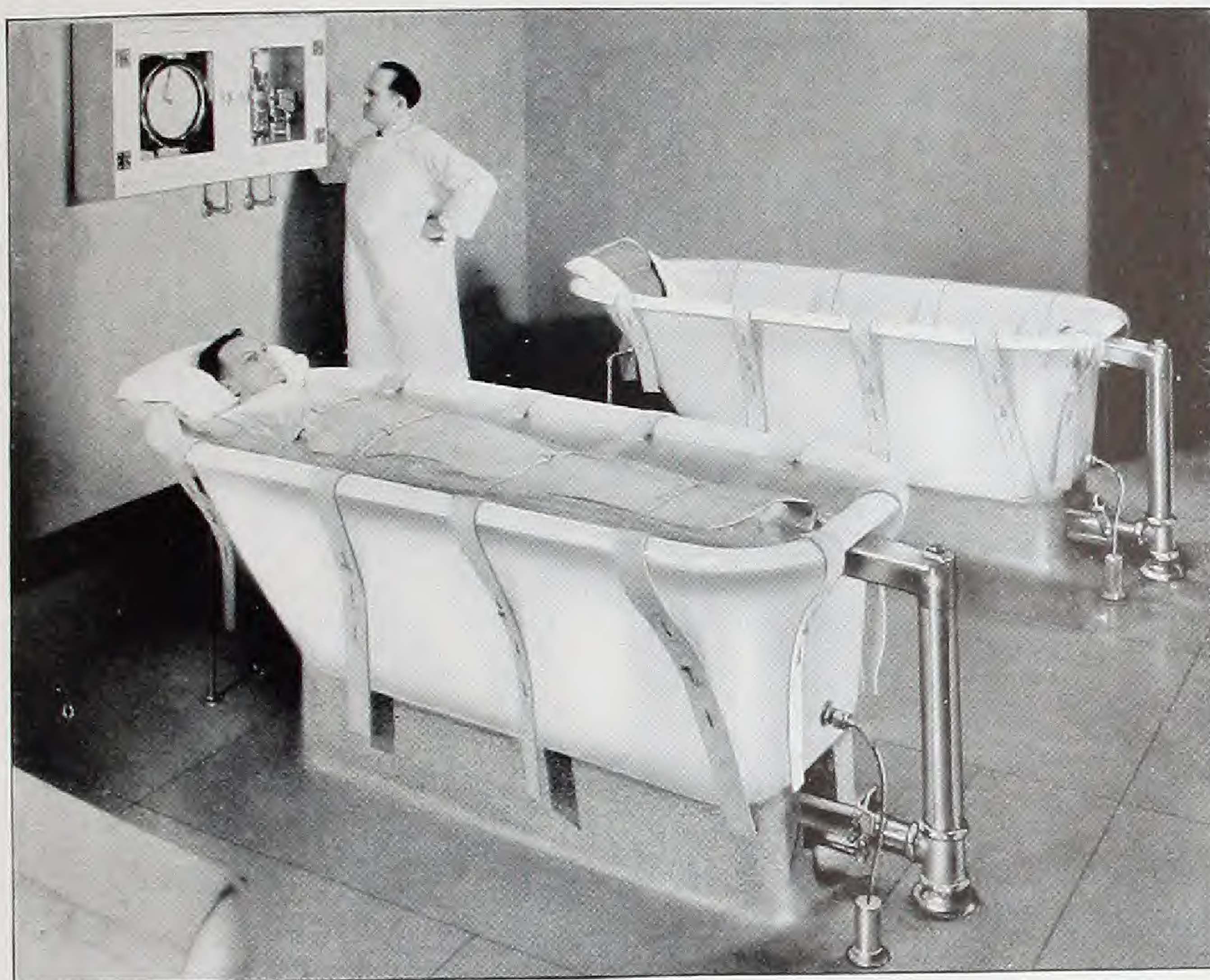
● C 5440 *Norwich* vitreous china lavatory has quick compression supply fixture with arm action blade handles and low spout. Has angle supply stops. Wall brackets are enameled. Made in three sizes: 24" x 21", 27" x 21", and 30" x 24".



CRANE SPECIAL HOSPITAL FIXTURES

CRANE plumbing equipment is in use in hospitals throughout the world and is renowned for its unfailing dependability and lasting quality. Consult Crane on the needs of your hospital. The Crane line includes many

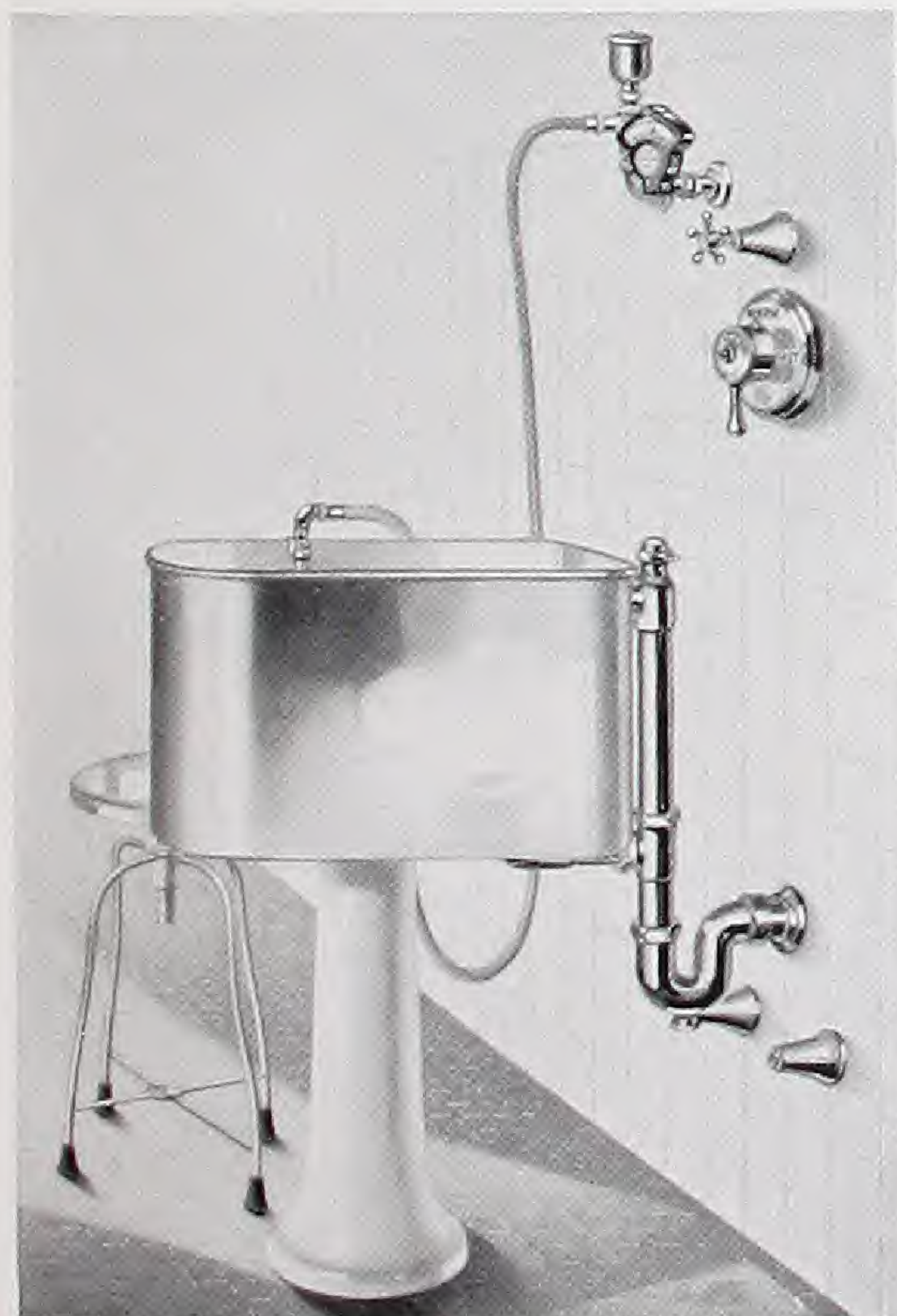
items of special equipment for hospitals such as hydrotherapeutic showers, hydrositz baths, sinusoidal baths, continuous flow baths, massage tables and arm and leg baths, electric light cabinets, sterilizers, thermostatic controls, etc.



CRANE BATHS

Some of the most important and most necessary equipment for the industrial hospital includes arm, leg and foot baths that provide a continuous flow of rapidly agitated, aerated water which furnishes a combination of heat and gentle massage. The medical profession recognizes this as the most valuable means of advancing the recovery of the patient in the treatment of peripheral nerve injuries, adherent scars and fractures after the removal of the cast.

Illustrated is Crane Continuous Flow Bath Model C 6229 which accurately maintains desired water temperature and is equipped with an automatic 24-hour chart for complete records of individual baths.



ARM BATHS

● A Crane arm bath will add much to the efficiency of any industrial hospital. No. C 6506-D is made of satin finish monel metal with supply and waste fittings of highest quality for durable and dependable



FOOT BATHS

● An absolute necessity in the care of foot and lower leg injuries. Model C 3120-C is made of porcelain—(all clay) with over-rim spout. Fittings are chromium-plated.



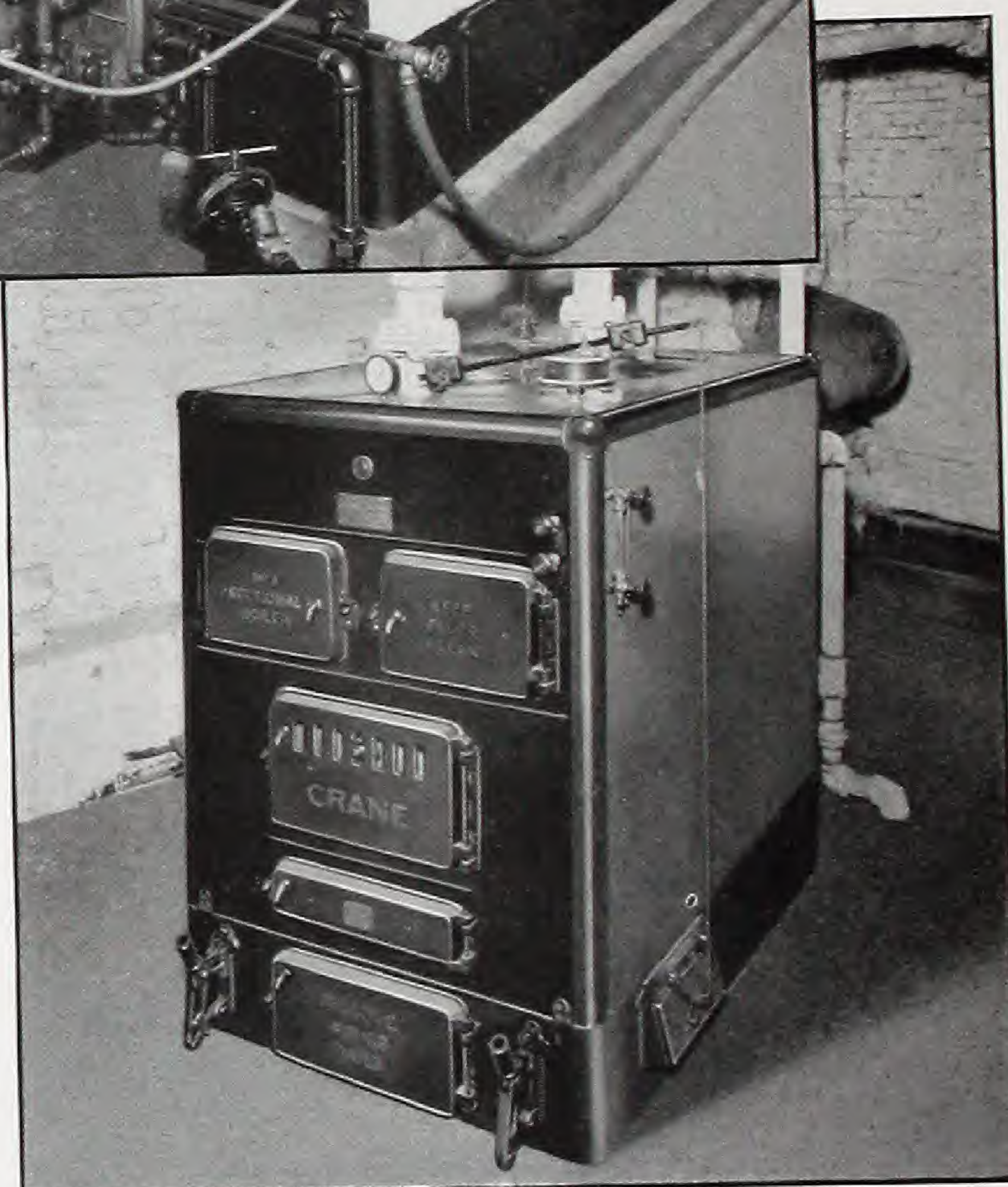
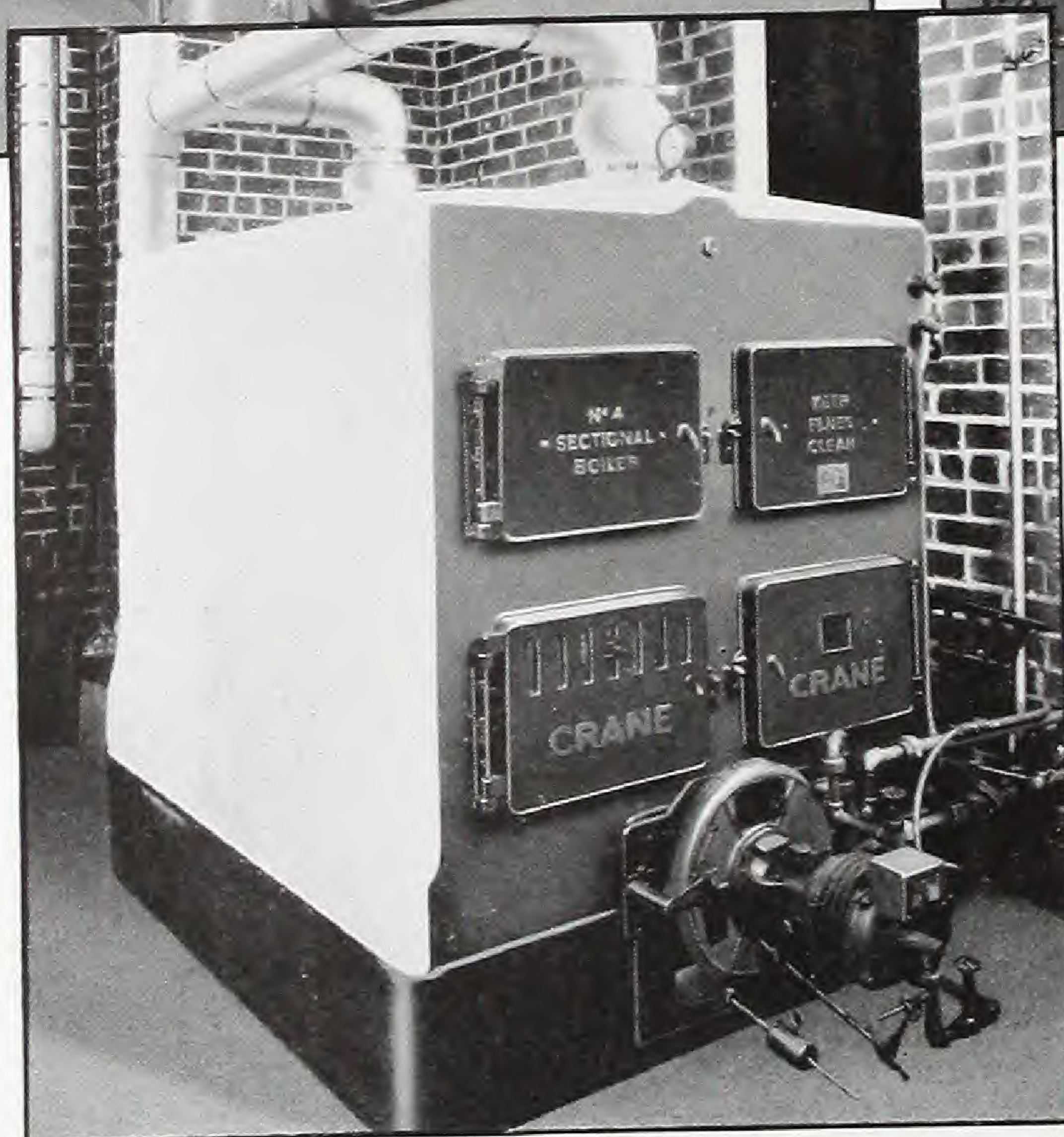
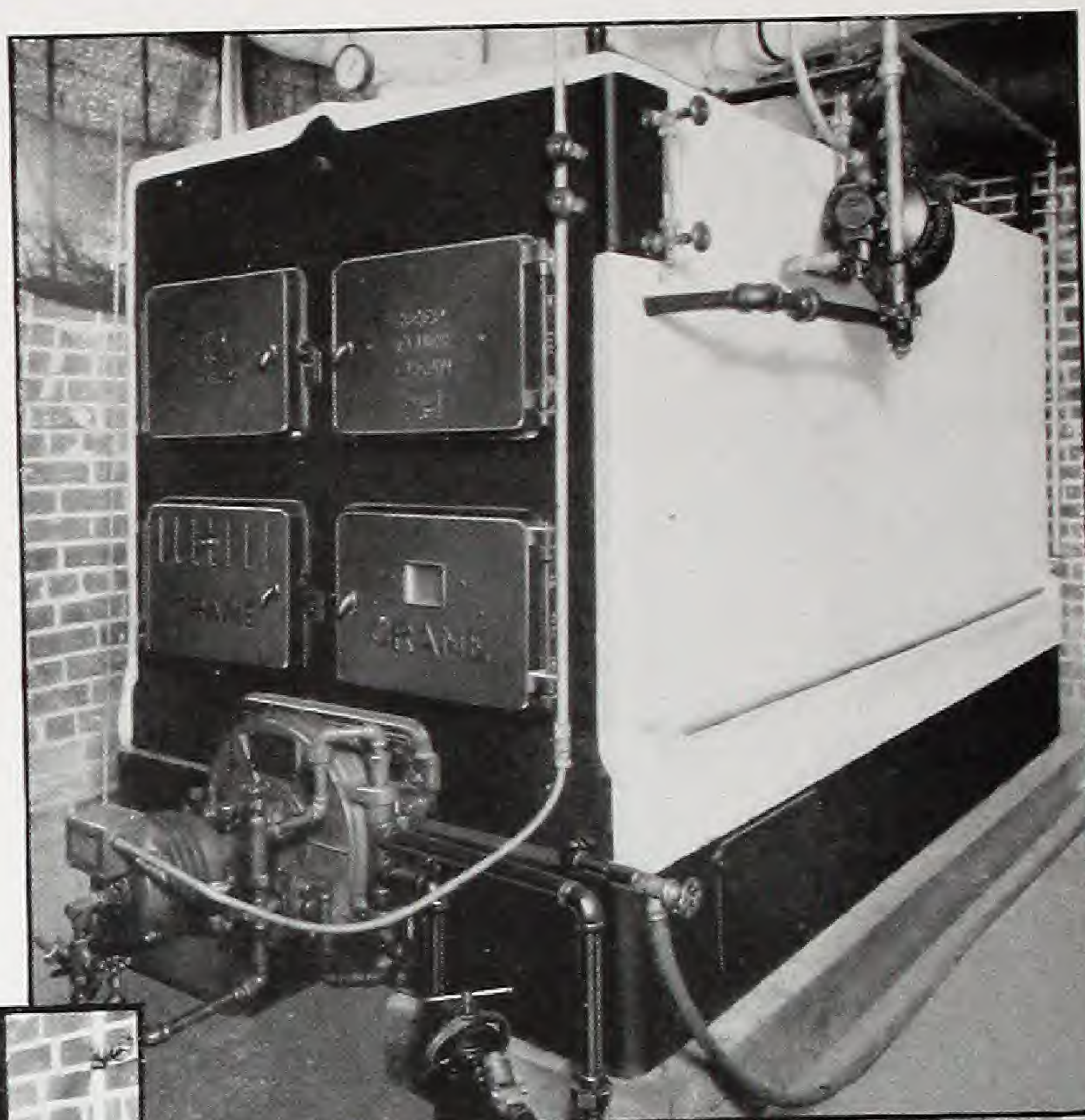
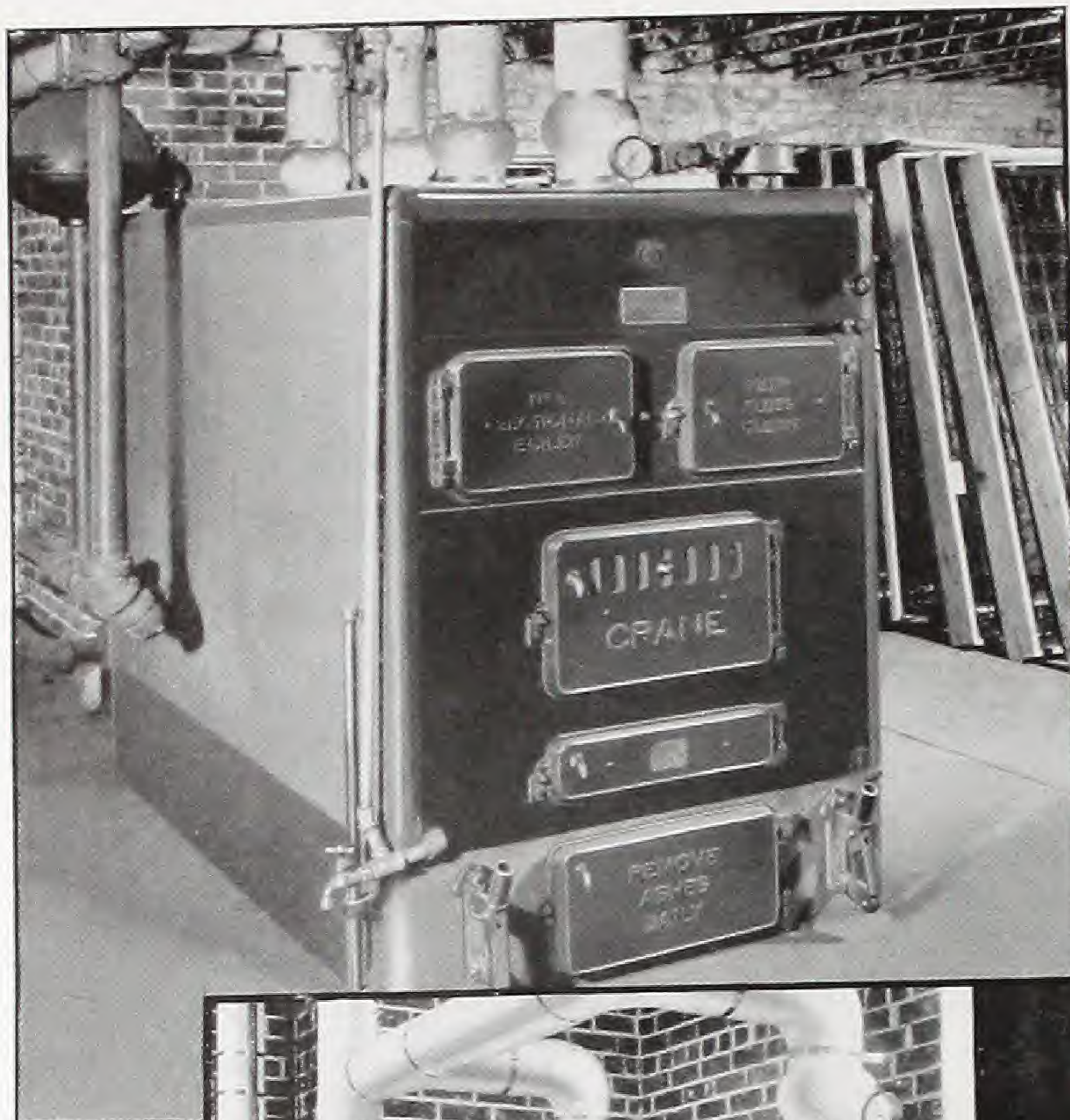
LEG BATHS

● Because of the many leg injuries which demand emergency treatment, the modern industrial hospital finds a leg bath indispensable in providing the proper care.

Crane Leg Bath No. C 6504-D is made of satin finish monel metal. Equipped with thermostatic supply fixture and vacuum breaker to prevent back siphonage. Comes in two sizes. Adjustable stool is included.

service. Equipped with thermostatic mixing valve and dial thermometer—also vacuum breaker to prevent back-siphonage. Pedestal is painted iron. Made in two sizes.

CRANE HEATING EQUIPMENT



IN addition to a complete line of domestic boilers for every fuel, Crane Co. offers the industrial plant or commercial building a wide variety of steam, hot water, vacuum and vapor heating equipment, as well as boilers from the smallest size to the largest steel firebox boiler with a 35,000 square foot steam capacity.

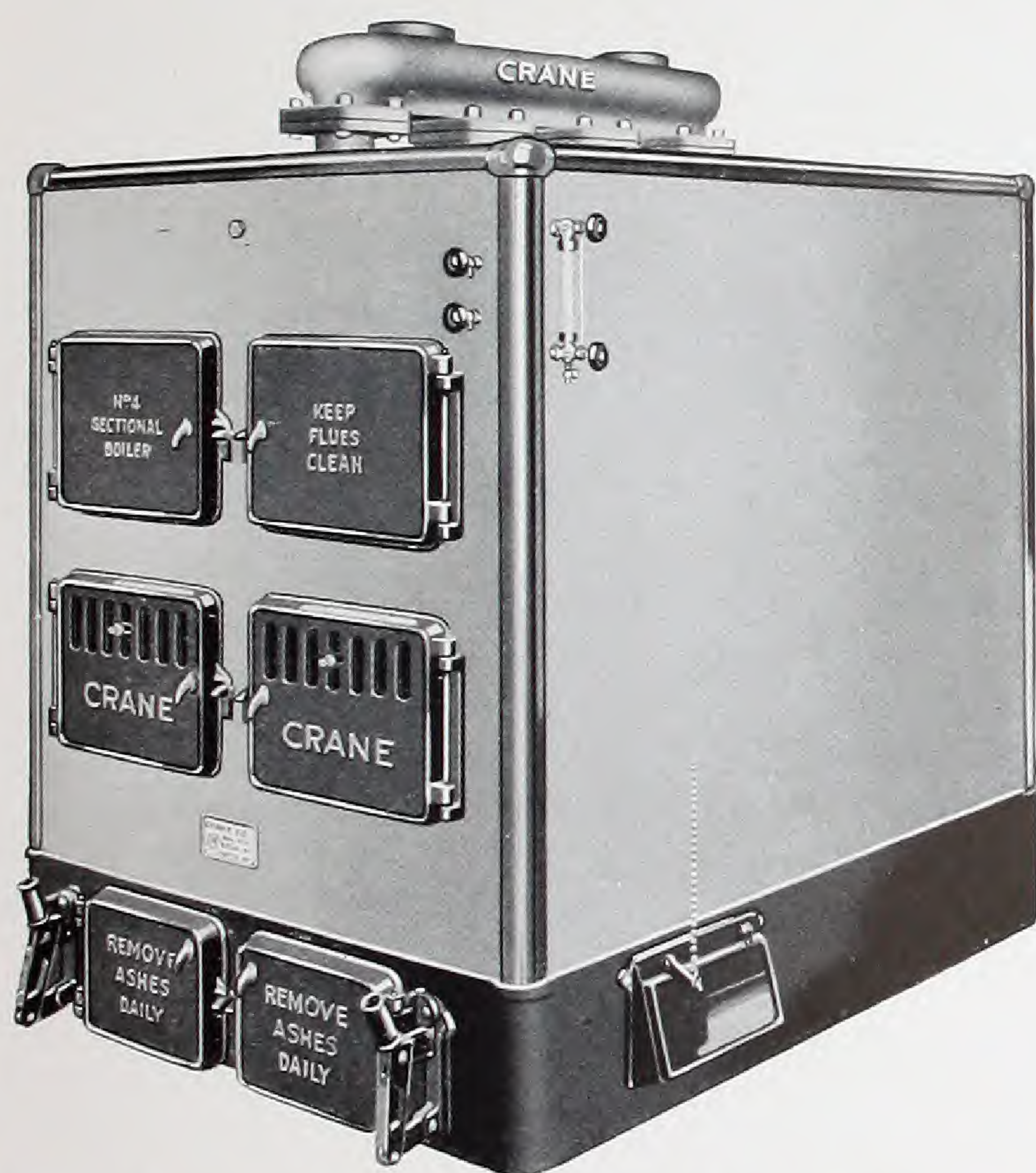
In radiation, the Crane line includes radiators in all standard sizes and styles, concealed convectors for every type of installation, humidify-

ing radiators, as well as *Sturtevant* unit speed heaters.

The years of experience of Crane engineers in handling industrial heating problems is reflected in the efficiency of Crane boilers and radiators for industrial use. The following pages contain a few items to show the breadth of the Crane heating line. Further information will be gladly submitted upon request, or consult a Crane heating contractor.

INDUSTRIAL PLANT HEATING

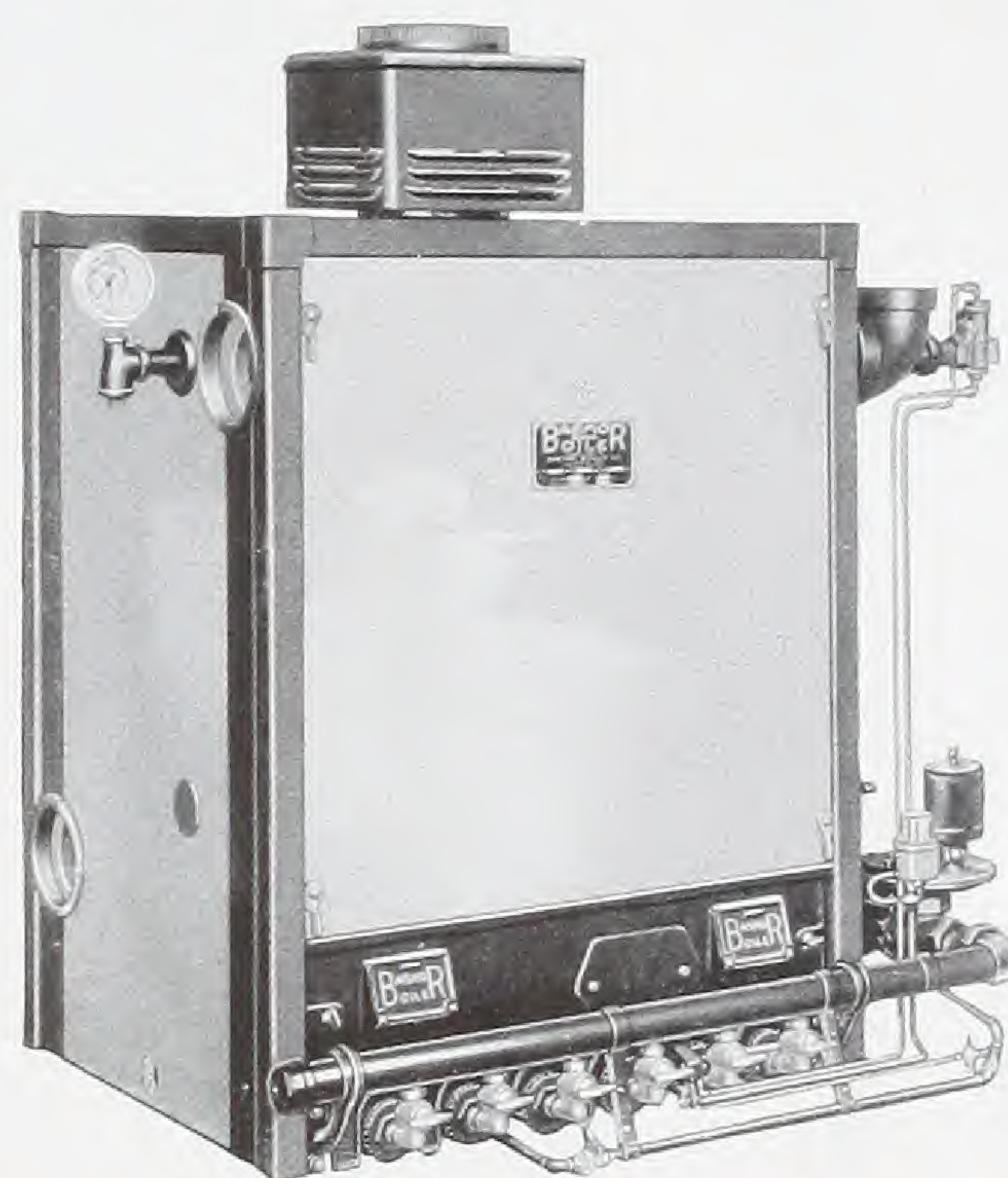
THE Crane line of boilers meets every heating need of industrial plants and commercial buildings. No matter what the requirements may be, Crane offers a dependable boiler designed to perform that service most efficiently and economically—with any type of fuel.



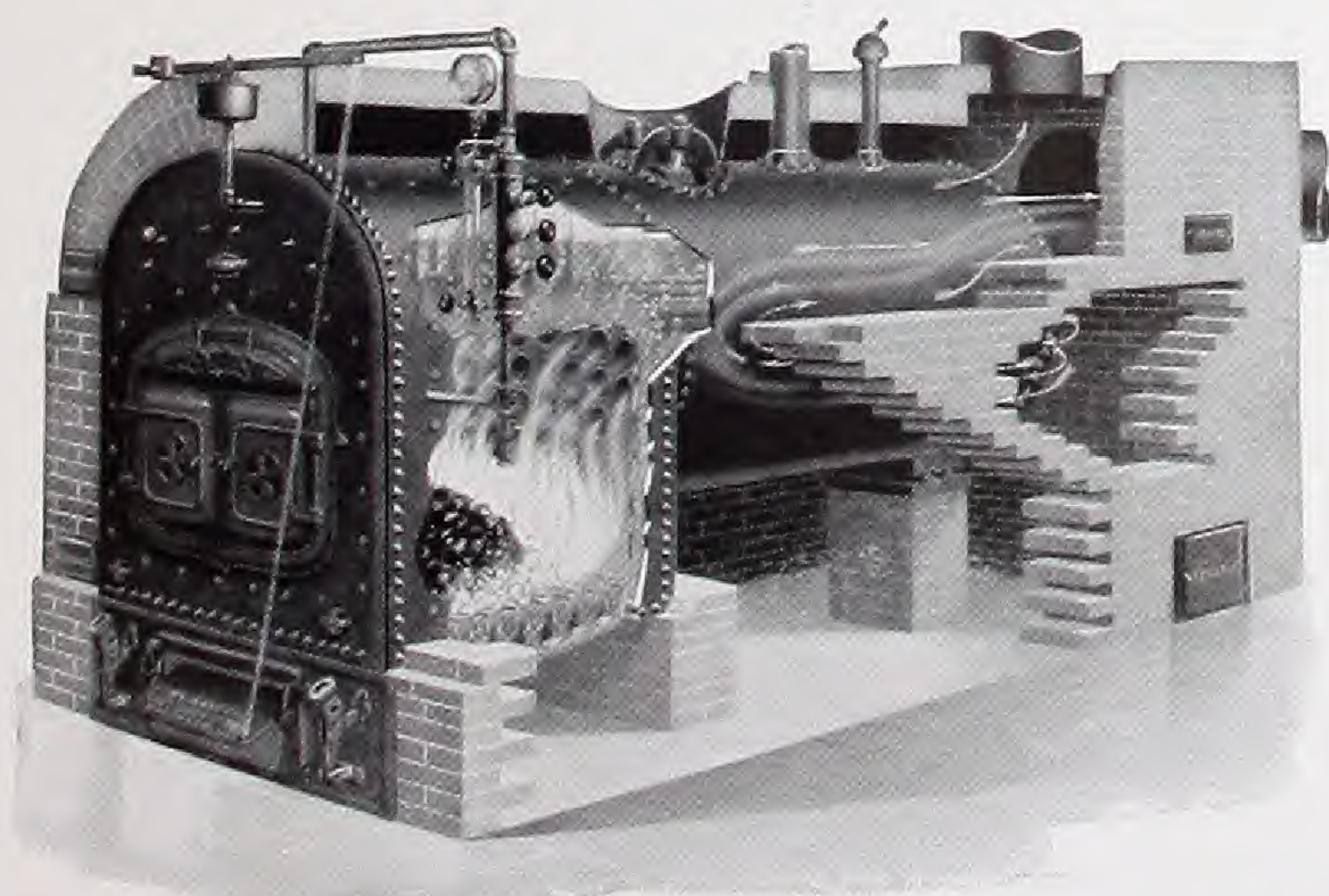
● The Crane large series Sectional Boilers are ideal for small plants and commercial buildings. Their high efficiency is due to patented features in construction and design, which provide increased ceiling heating surface and controlled water travel over the most effective heating surface. Available for steam, hot water or vapor heating—with any type of fuel.

Crane boilers are backed by a reputation for outstanding quality. For more than three generations, the name Crane has been significant of advanced engineering and design, and expert workmanship.

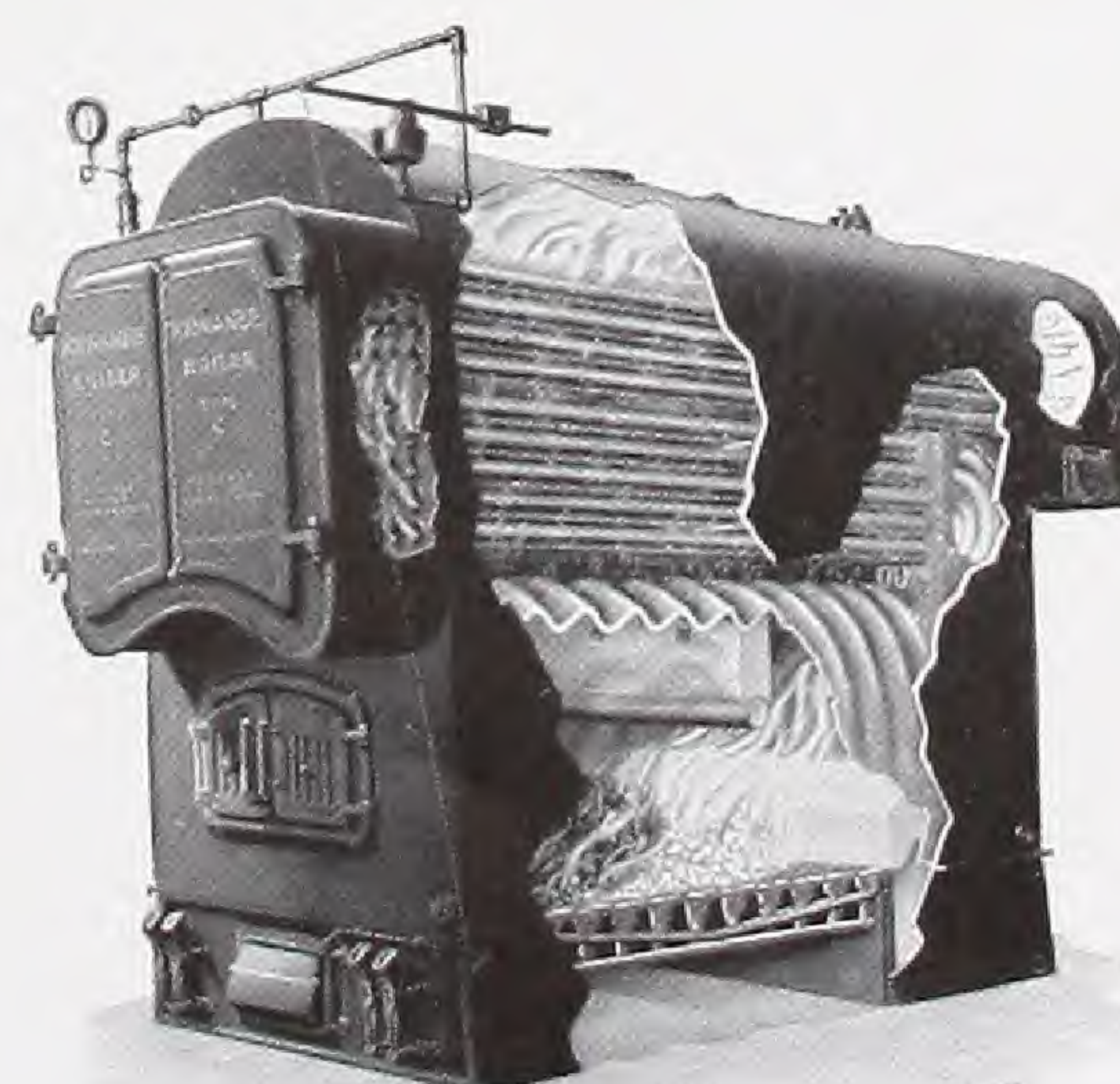
Crane engineers have successfully coped with every type of heating problem. Their long experience and able counsel is at your service—without obligation.



● The Series 40 Standard *Basmor* Gas-Fired Boiler is built in thirty sizes—for large-scale heating—with A.G.A. ratings up to 12,690 square feet of hot water radiation. It is completely automatic, highly efficient and safe. It is made either for steam or hot water systems.

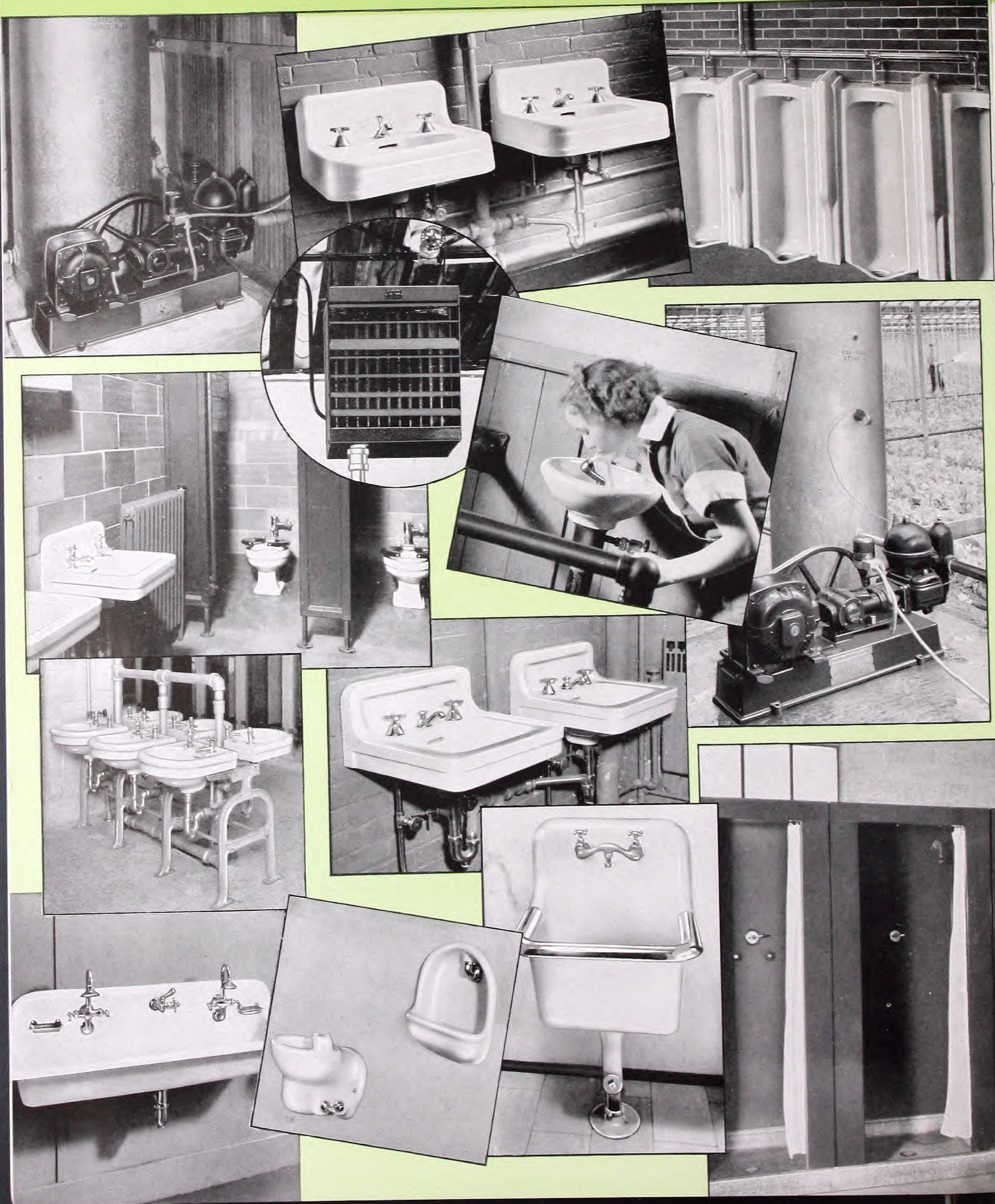


● A steel Firebox Boiler for steam and hot water heating. Tubular type built in sizes ranging in capacity from 510 to 20,000 square feet. An efficient and economical boiler for industrial heating systems.



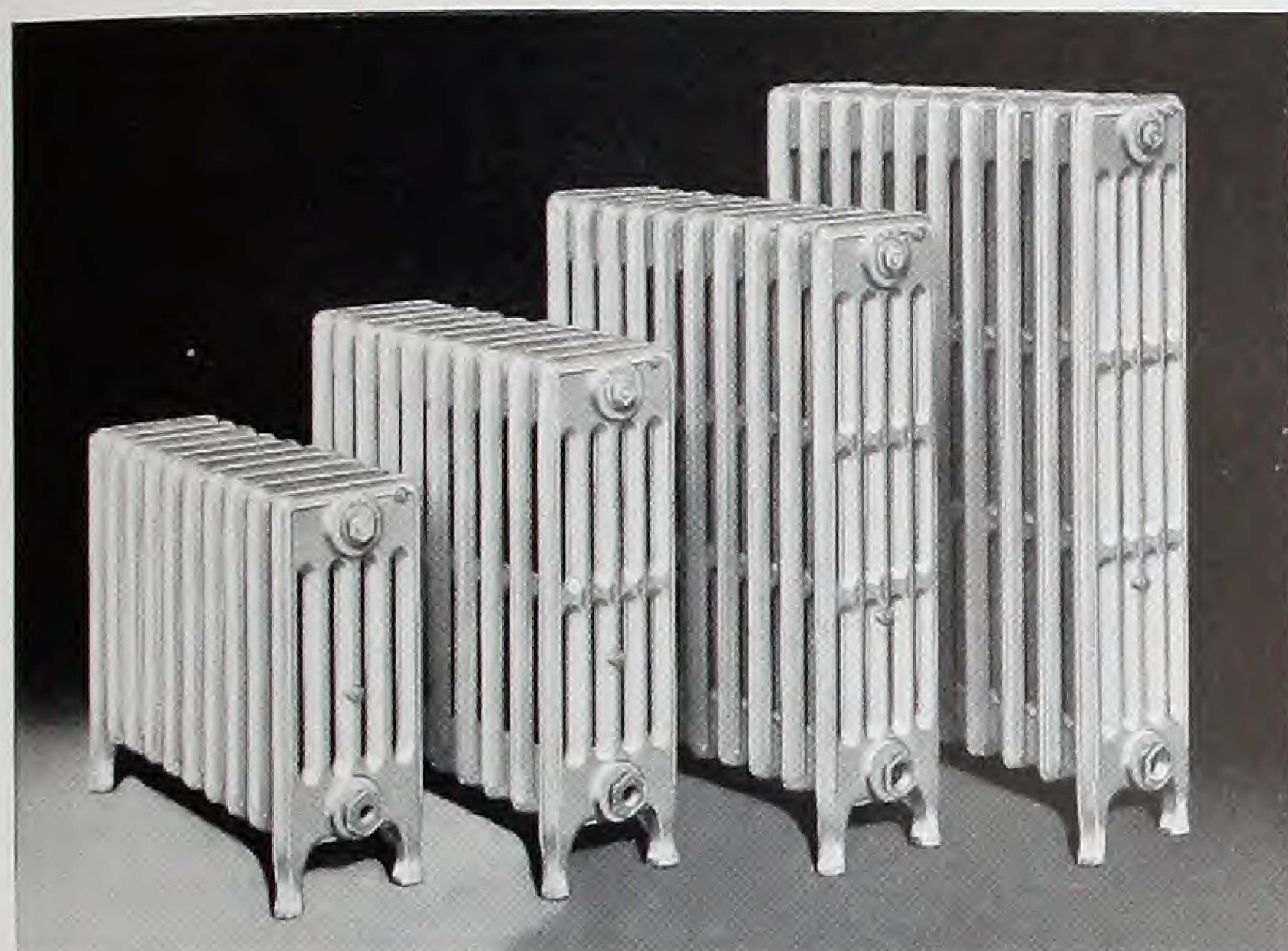
● A steel Smokeless Firebox Boiler for steam and hot water heating. Tubular type built in 17 sizes ranging in capacities from 2,600 to 35,000 square feet. Designed for use in industrial plants or commercial buildings.

TYPICAL CRANE INSTALLATIONS



INDUSTRIAL PLANT RADIATION

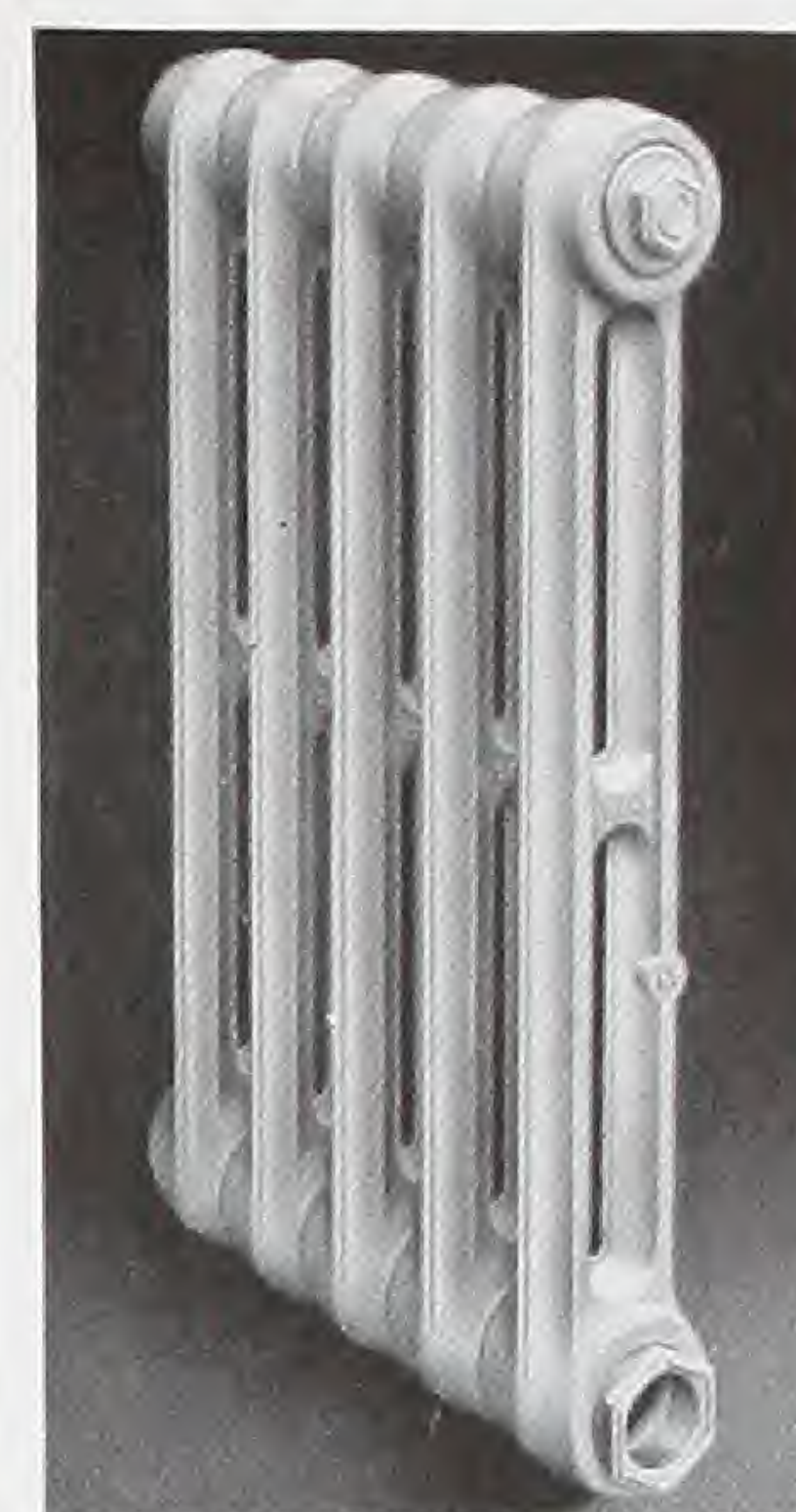
RADIATORS AND CONVECTORS



Crane Radiators are made in a variety of convenient heights and lengths to suit the space and heating conditions found in plants, offices, hospitals, etc. Also made in legless design for use where clearance under radiator is desirable for cleaning.



Crane Convactor Radiators are designed for maximum efficiency and utility. Made for all types of installations—in all required dimensions. Removable grill permits thorough cleaning with ease.



The two-tube wall and ceiling radiator is preferred under many conditions for economy in space.

HEATING ACCESSORIES



No. 174 Brass Radiator Angle Valve with Union.



No. 2 Siphon Air and Vacuum Venting Valve.

Crane valves and fittings for all heating and piping conditions are backed by more than 80 years of experience in manufacture. The name Crane on valves or fittings is an assurance not only of highest quality, but of highest operating efficiency as well.

The Crane Line includes every type of heating specialty that may be required in commercial and industrial building installations.



Crane standard brass and malleable iron fittings are made in a full range of types and sizes—straight and reducing.



No. 232 Brass Modulating Radiator Angle Valve.



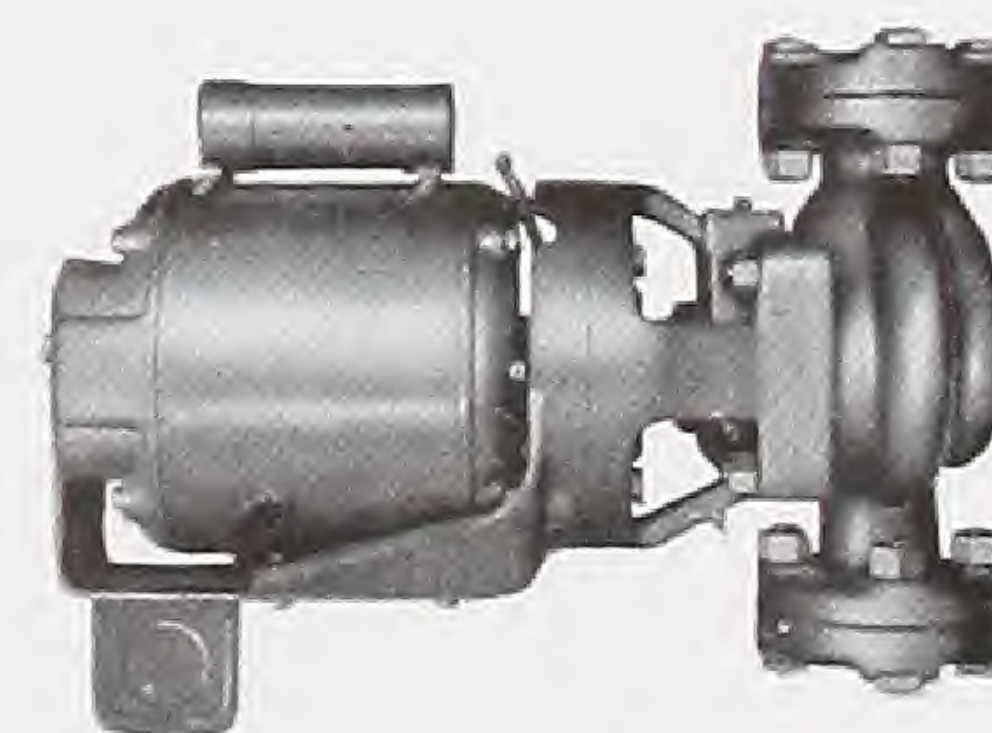
No. 449 1/2 Low Pressure Brass Gate Valve.



No. 210 Radiator Air Valve with Loose Key.



Hot Water Circulation Booster with Flow-Control Valve. Saves from 15% to 30% of annual fuel costs. Made in four sizes.



No. 100-300 Speed Heater.

STURTEVANT UNIT SPEED HEATERS

Frequently in the heating of factories or other buildings it is desirable to employ a very flexible system for localized heating . . . a system by which large volumes of warm air can be almost instantly directed where and when it is wanted.

The *Sturtevant* Speed Heater accomplishes this function with great effectiveness. It comprises a motor, heating element and fan. Motors may have 1 to 5 speeds and are controlled from a thermostat, remote or individual control. Speed heaters are made in 10 capacities, a size for every requirement. (Supplied with electric heating element if desired.)



No. 25-75 Speed Heater.

CRANE WATER TREATING EQUIPMENT

IN many districts industry must depend on lakes, rivers, or wells for water. Some of these sources produce water which is unfit for processing, boiler feed work or other manufacturing uses and therefore it becomes necessary to install water conditioning equipment.

Crane-Warlo manufacture a complete line of

SOFTENERS

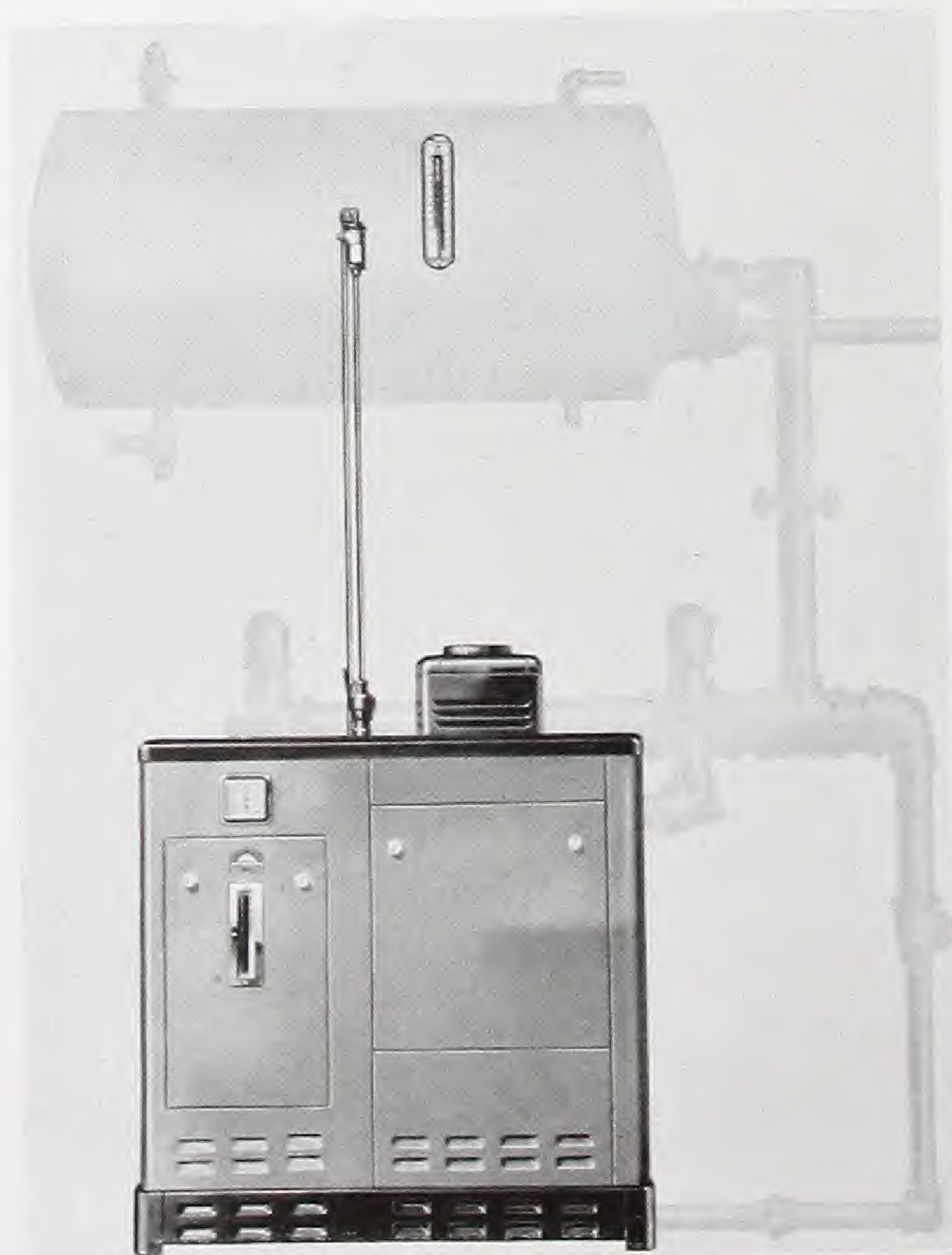
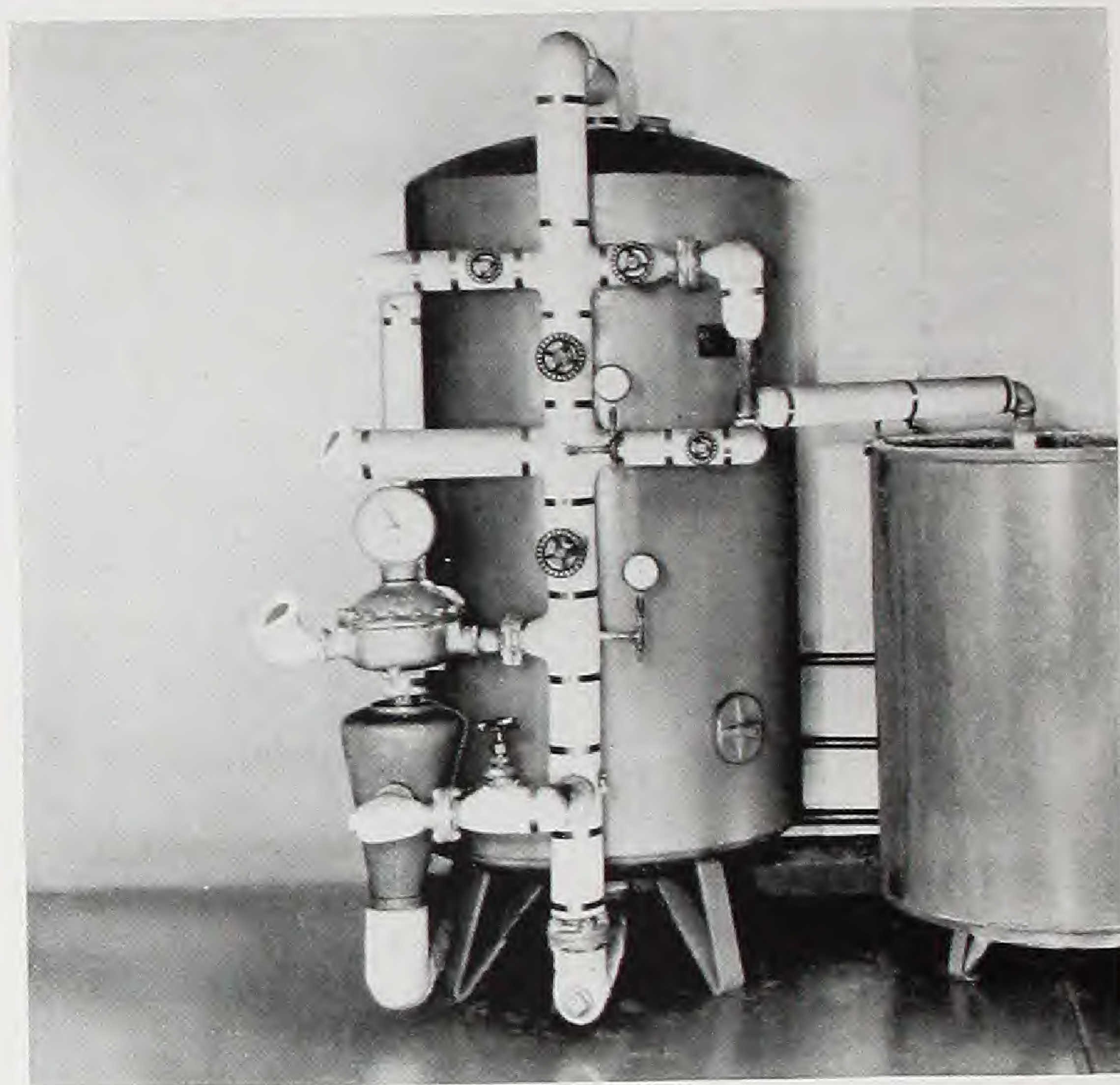
- Crane-Warlo softeners are made in a wide range of sizes up to and including 300,000 grains per regeneration. By submitting water samples and capacity requirements to your nearest Crane branch, you can get a proper recommendation promptly.

FILTERS

- Included in the Crane-Warlo water conditioning equipment is a complete line of filters for removing dirt, iron, bad tastes, odors, or for neutralizing waters to prevent corrosion.

Consult the nearest Crane Branch for further details.

this equipment and their engineers are ready and anxious to help solve your problems, whatever they may be. Samples of water are analyzed without charge to determine degree of hardness as well as the presence of injurious minerals; and recommendations as to the equipment required for proper conditioning are quickly given.



WATER HEATERS

- Crane Gas-Fired Water Heaters are made in a wide variety of sizes to accommodate the needs of any water heating service. Ask your plumbing contractor.

LARGE VOLUME WATER HEATERS

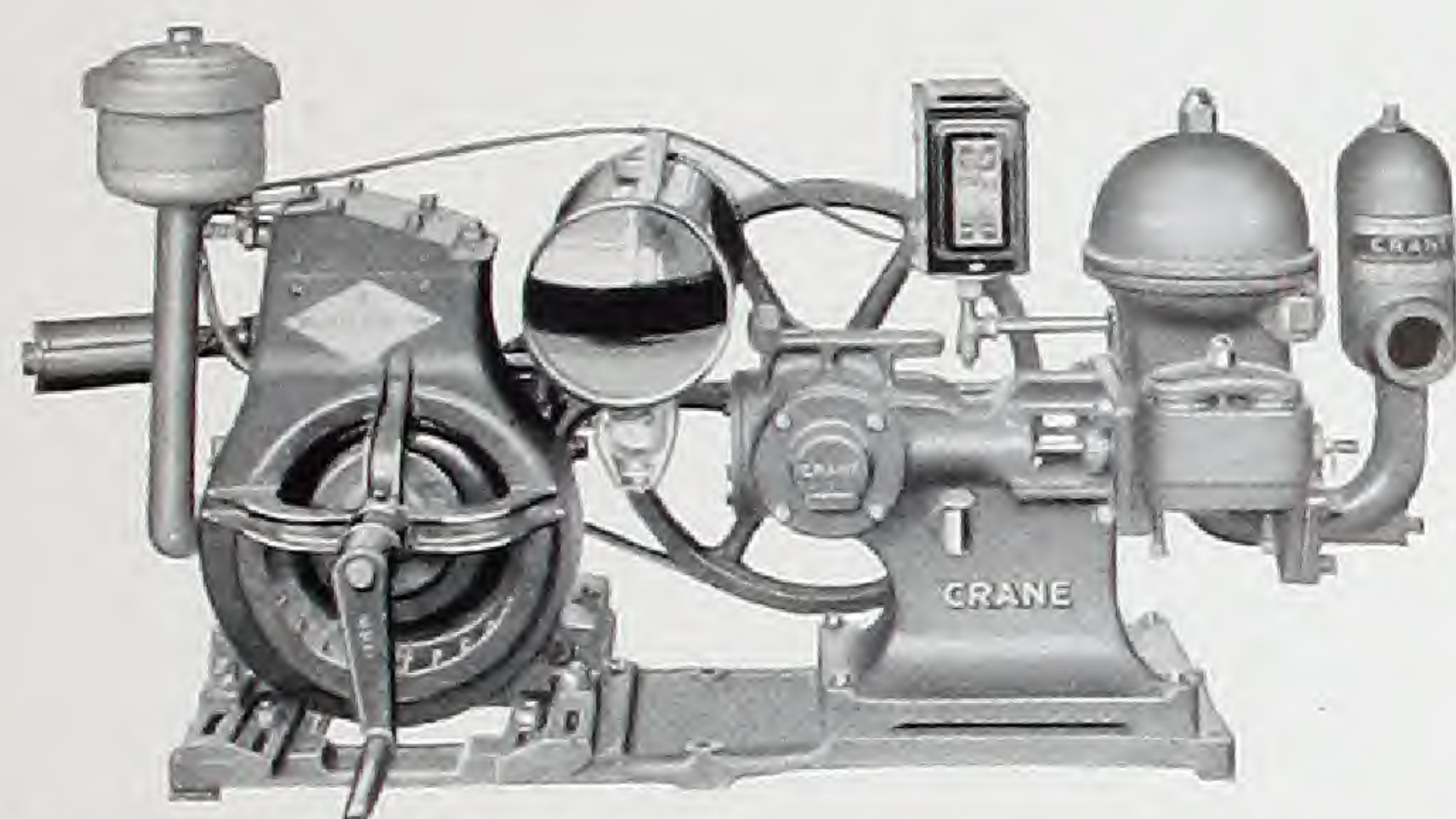
- *Basmor* Gas-Fired Boilers are particularly adapted to large volume water heating. They are made in 40 sizes to handle correctly and economically any gas water heating job, regardless of scope—ranging from industrial plants to the greatest hotels and office buildings. Fully automatic, they assure unfailing instant hot water service, day or night, with no janitor cost.



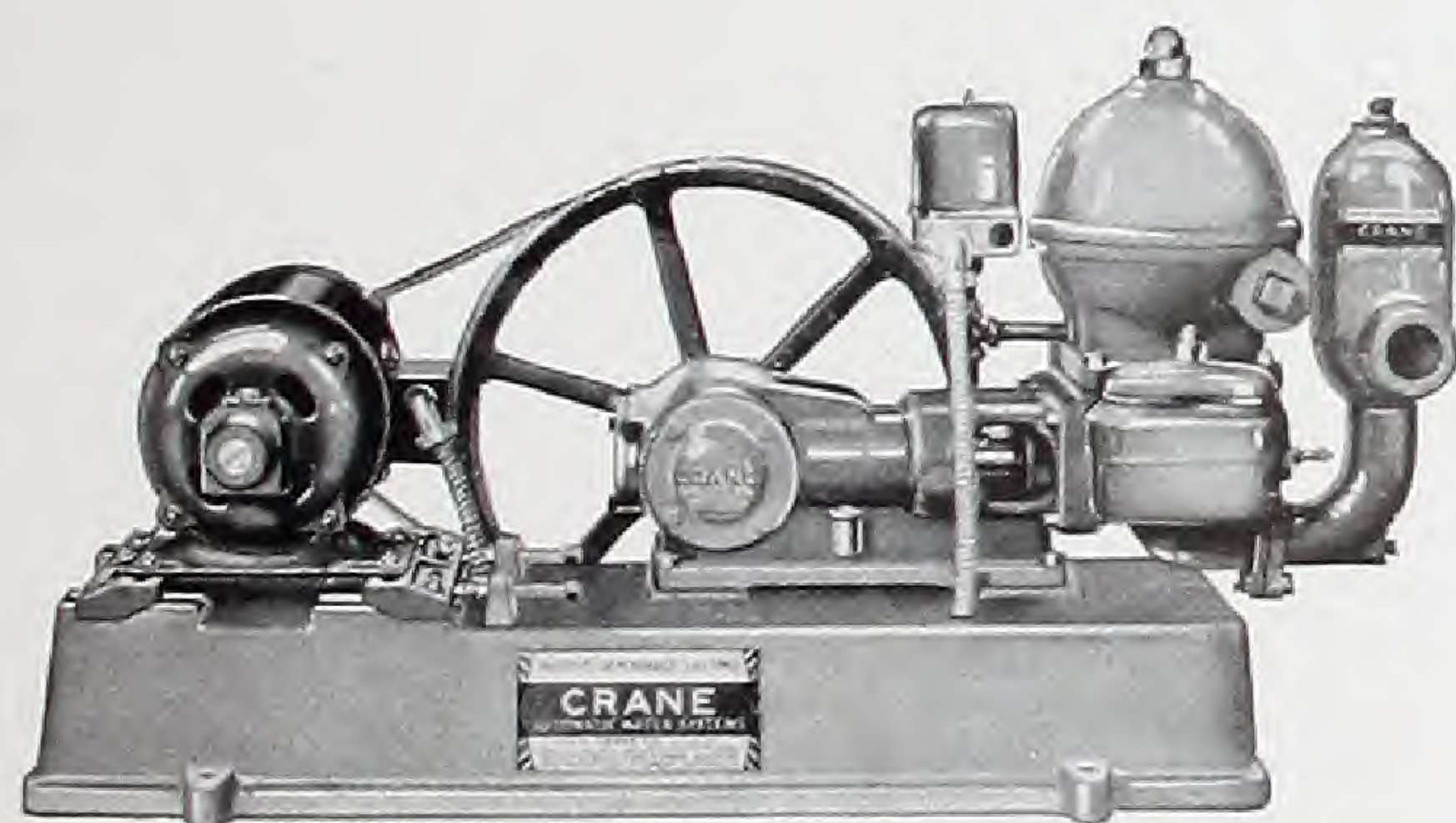
CRANE WATER SYSTEMS

CRANE automatic pumps and water systems are designed to supply large quantities of water from deep or shallow wells, rivers, lakes or cisterns. They will provide constant, convenient service with the minimum amount of attention.

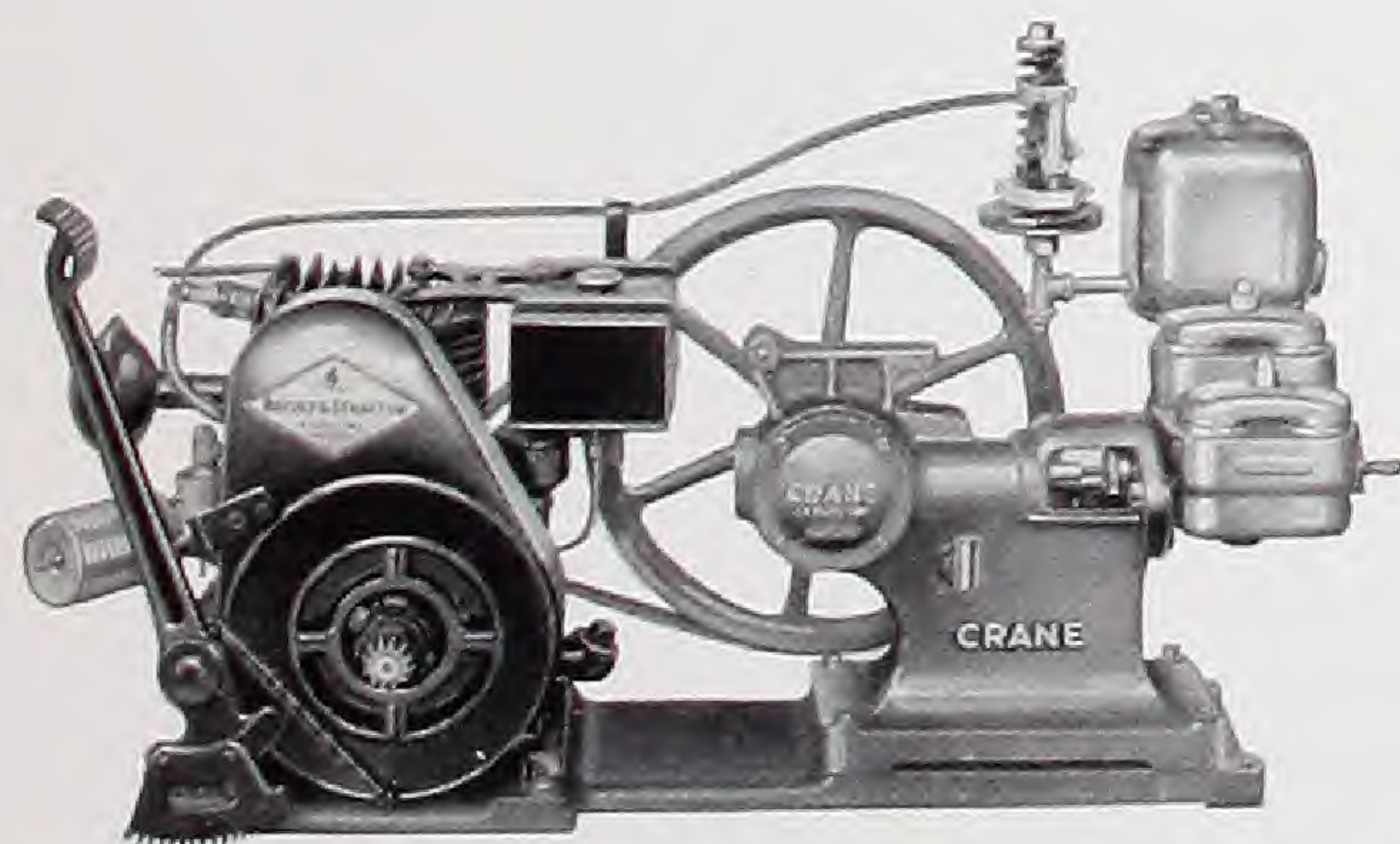
The shallow well group includes models from



● The S-40-G Shallow Well Pump with a 1 h.p. gasoline engine has a capacity of 400 gallons per hour at 40 pounds pressure. Has hand crank starter. $\frac{1}{2}$ h.p. engines have foot-pedal starter. Size: 36" wide, 22" long, 16" deep.



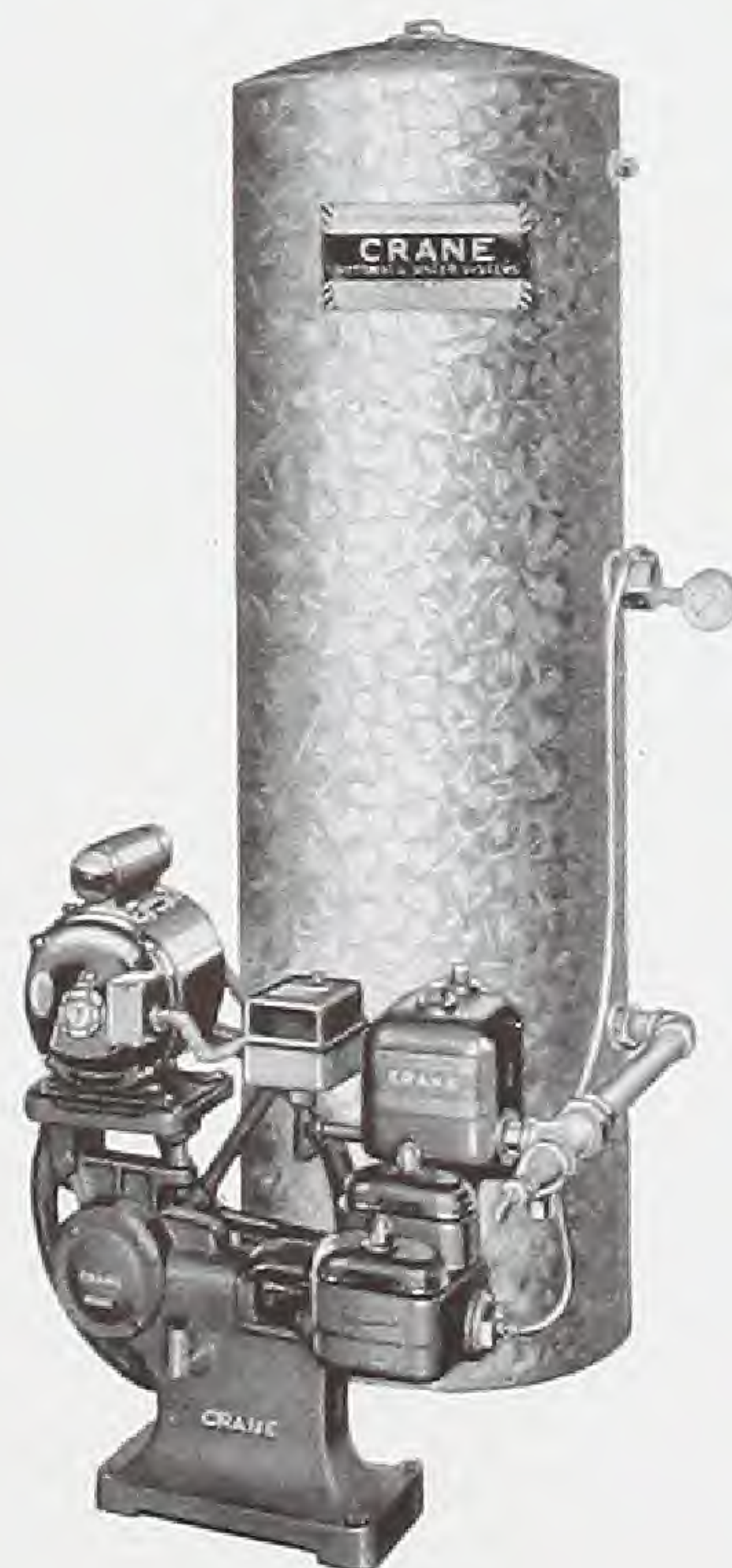
● The electric driven Model S-80 Water Pump has a capacity of 800 gallons per hour at 40 pounds pressure, and 875 g.p.h. at free flow. Is duplex cylinder, double acting type, with $\frac{3}{4}$ h.p. motor—110 or 220 v., 60 cy., S.P. A.C. Size: 24" high, 46" wide, 16" deep. Model S-100 with $1\frac{1}{2}$ h.p. motor has 1000 gallon capacity at 40 pounds pressure, 1100 gallons at free flow.



● Model S-25-G Shallow Well Pump is furnished with a $\frac{1}{2}$ h.p. gasoline motor equipped with foot-pedal starter. Capacity is 250 gallons per hour at 40 pounds pressure. Size: 36" wide, 22" long, 12" deep.

250 to 1000 gallons per hour in single and duplex cylinder reciprocating type. These pumps can be furnished for pressures up to and including 75 pounds and with any size tank to make a complete system, which includes necessary controls, fittings and motor.

The deep well heads are made in two sizes—6" and 9" stroke for capacities up to 1000 gallons per hour using a single acting cylinder and up to 1800 gallons per hour using a double-acting cylinder. Because of their slow speed, they are long wearing and tests have proved that these pumps have a very high efficiency. Complete details may be had from the nearest Crane branch.



● Model S-25-A water system is designed for pumping from shallow wells, lakes and cisterns. Has a pump capacity of 250 gallons per hour at 40 pounds pressure with $\frac{1}{6}$ h.p. motor, 275 g.p.h. at free flow. System includes pump, tank, and motor accessories. Motor is 110 or 220 volt, 60 cycle, S.P. A.C. Size: $52\frac{1}{2}$ " high, 26" wide, $28\frac{3}{4}$ " deep.

● The Crane D-6 deep well electric water system includes the head, motor, multiple "V" belt drive, automatic pressure switch, automatic air release, pressure gauge, relief valve, galvanized vertical pneumatic storage tank, check valve, necessary pipe and fittings to connect tank to pump. Model D-6 will operate with motors up to and including 1 h.p. Has capacity of 395 gallons per hour at lift of 150 feet with 1 h.p. motor.



